

Grade 4

Math

ISTEP+ Part II

Weight **70%**



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Message to Teachers

The PowerPoint Presentation is intended to help students to become familiar with online computer-type questions. There are five days of instructional materials that can be easily stretched to six or seven days upon the discretion of the teacher. This PowerPoint Presentation can be used as a whole-class instructional tool or in small group settings. The information is based upon standards by rating:

- ✓ Grade Level Standard Potentially on ISTEP+ Part II only
- * ✓ Grade Level Standard Potentially on ISTEP+ Parts I&II
- * ✓+ Very Important Grade Level Standard Potentially on ISTEP+ Parts I&II
- ✓+ Very Important Grade Level Standard Potentially on ISTEP+ Part II only

Grade 4 Math

Categories and Weight

ISTEP+

- Number Sense 12-22%
- Computation 16-26%
- Algebraic Thinking & Data Analysis 18-28%
- Geometry & Measurement 20-30%
- Mathematical Process 9-19%

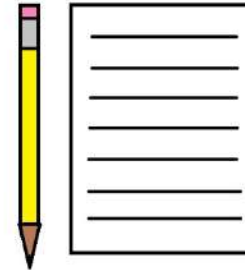
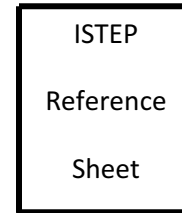
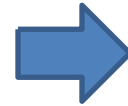
Question Types on ISTEP+..... Part II

ISTEP+ Part II has a variety of question types. The samples that are provided in this document will illustrate the different forms or types of problems that you will see on ISTEP+ Part II.

- **Multiple Choice**.....select the one correct answer from a choice of 4.
- **Technology Enhanced**.....select multiple right answers from a list of 5-7 choices.
- **Short Answer**.....answer must be typed on the answer blank provided.
- **Drag and Drop**.....possible answers are in a menu.....drag and drop answer choices with a mouse to a certain location.

Directions:

- The problems that follow will be similar to the types of questions on the online version of ISTEP+.
- Some problems require the use of the ISTEP+ reference sheet. If you see this icon you are allowed to use the ISTEP reference sheet.
- Many of the problems will require some pencil/paper work to find the answer. So....have a pencil and paper handy.



Number Sense

12-22%

Day 1

✓ 4.NS.3

Express whole numbers as fractions and recognize fractions that are equivalent to whole numbers. Name and write mixed numbers using objects or pictures. Name and write mixed numbers as improper fractions using objects or pictures.

*✓ 4.NS.4

Explain why a fraction, a/b , is equivalent to a fraction, $(n \times a)/(n \times b)$, by using visual fraction models, with attention to how the number and size of the parts differ even though the two fractions themselves are the same size. Use this principle to recognize and generate equivalent fractions. [In grade 4, limit denominators of fractions to 2, 3, 4, 5, 6, 8, 10, 25, 100.]

*✓ 4.NS.5

Compare two fractions with different numerators and different denominators (e.g., by creating common denominators or numerators, or by comparing to a benchmark, such as 0, $1/2$, and 1). Recognize comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with symbols $>$, $=$, or $<$, and justify the conclusions (e.g., by using a visual fraction model).

✓ 4.NS.6

Write tenths and hundredths in decimal and fraction notations. Use words, models, standard form and expanded form to represent decimal numbers to hundredths. Know the fraction and decimal equivalents for halves and fourths (e.g., $1/2 = 0.5 = 0.50$, $7/4 = 1 \frac{3}{4} = 1.75$).

*✓ 4.NS.7

Compare two decimals to hundredths by reasoning about their size based on the same whole. Record the results of comparisons with the symbols $>$, $=$, or $<$, and justify the conclusions (e.g., by using a visual model).

✓ 4.NS.9

Use place value understanding to round multi-digit whole numbers to any given place value.

✓ 4.NS.3

Which two fractions are the same as 4?
Darken the correct answers.

A

$$\frac{8}{4}$$



$$\frac{8}{2}$$

C

$$\frac{4}{8}$$

D

$$\frac{2}{8}$$



$$\frac{12}{3}$$

F

$$\frac{3}{12}$$

*✓ 4.NS.4

Which pair of fractions are equivalent?
Darken the correct answer.

A $\frac{1}{3}$ $\frac{3}{5}$

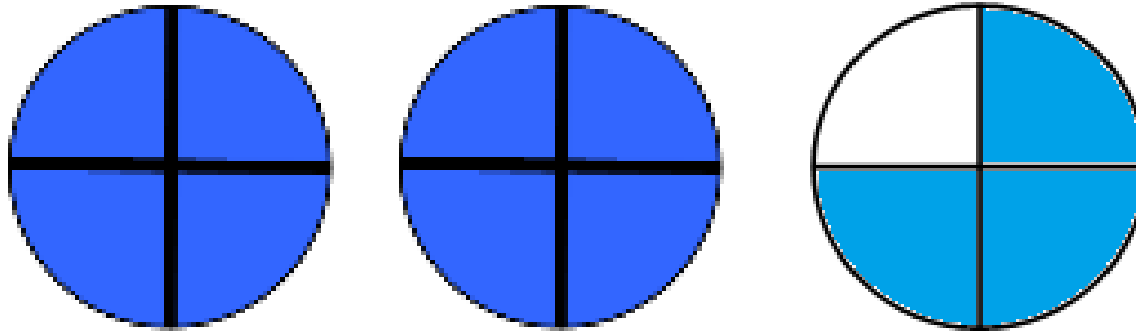
B $\frac{2}{4}$ $\frac{3}{5}$

D $\frac{6}{10}$ $\frac{4}{8}$

$\frac{6}{10}$ $\frac{3}{5}$

✓ 4.NS.3

Write the fraction shown in the model below.
Write your answer on the blank.



Answer $2\frac{3}{4}$ or $\frac{11}{4}$

***✓ 4.NS.4**

Select a group of fractions that includes an equivalent fraction for each of the fractions $\frac{3}{4}$, $\frac{9}{10}$, and $\frac{4}{12}$. Darken the correct answer.

A

$$\frac{3}{8}, \frac{9}{100}, \text{ and}$$

B

$$\frac{3}{8}, \frac{90}{100}, \text{ and}$$

$$\frac{9}{12}, \frac{90}{100}, \text{ and } \frac{1}{3}$$

D

$$\frac{9}{12}, \frac{90}{100}, \text{ and } \frac{1}{4}$$

*✓ 4.NS.5

Which pairs of fractions show a correct comparison?
Select the **two** correct answers.

$\frac{2}{5} = \frac{40}{100}$

B $\frac{2}{5} > \frac{6}{9}$

C $\frac{2}{5} > \frac{2}{3}$

$\frac{3}{5} < \frac{8}{12}$

E $\frac{3}{5} > \frac{2}{3}$

F $\frac{3}{5} = \frac{98}{100}$

*✓ 4.NS.5

Which comparison is correct? Select the correct letter choice.

A $\frac{9}{10} < \frac{4}{12}$

B $\frac{4}{12} = \frac{3}{4}$

C $\frac{3}{4} < \frac{9}{10}$

D $\frac{4}{12} > \frac{3}{4}$

*✓ 4.NS.7

Which comparison is true?
Darken the correct answer.

A $2.6 < 2.06$

B $2.2 = 2.20$

C $3.07 = 3.7$

D $1.57 > 2.5$

*✓ 4.NS.5

Which pairs of fractions show a correct comparison?
Select the **two** correct answers.

A

$$\frac{6}{12} < \frac{1}{2}$$

B

$$\frac{6}{12} > \frac{1}{2}$$

$$\frac{6}{12} = \frac{1}{2}$$

D

$$\frac{8}{4} < \frac{3}{2}$$

$$\frac{8}{4} > \frac{3}{2}$$

F

$$\frac{8}{4} = \frac{3}{2}$$

***✓ 4.NS.4**

Which fraction is equal to $\frac{2}{5}$?

Darken the correct answer.

A

$$\frac{1}{10}$$

B

$$\frac{2}{10}$$

$$\frac{4}{10}$$

D

$$\frac{5}{10}$$

✓ 4.NS.9

Round **37.5878** to the nearest hundredth.
Darken the correct answer.

A 37.588

B 37.59

C 37.58

D 37.589

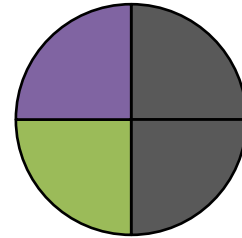
***✓ 4.NS.4**

Which model is equivalent to $\frac{1}{4}$?

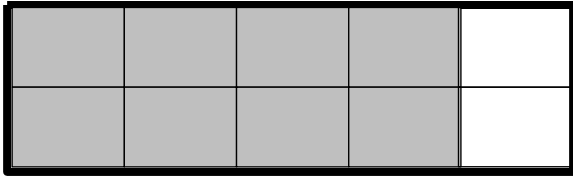
Darken the correct answer.



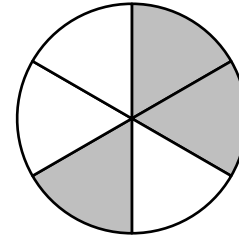
B



C



D



*✓ 4.NS.5

Drag and drop the correct fraction to the answer blank from the Selection Menu that makes each statement true.

Not all the fractions in the Selection Menu will be used.

1. $\frac{4}{6} < \underline{\hspace{2cm}}$

2. $\frac{4}{6} = \underline{\hspace{2cm}}$

3. $\frac{3}{8} > \underline{\hspace{2cm}}$

4. $\frac{2}{4} = \underline{\hspace{2cm}}$

Selection Menu

$$\frac{1}{2}$$

$$\frac{1}{4}$$

$$\frac{5}{6}$$

$$\frac{5}{8}$$

$$\frac{3}{8}$$

$$\frac{2}{3}$$

✓ 4.NS.9

Round **47.587** to the nearest tenth.
Darken the correct answer.



47.6



47.5



47.58



47.59

*✓ 4.NS.4

Find the three fractions that are equivalent to $\frac{3}{10}$?

A

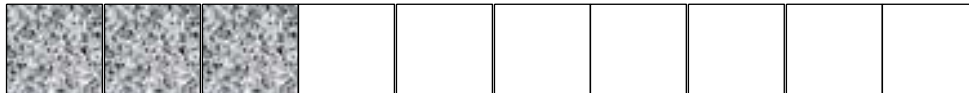
$$\frac{10}{3}$$



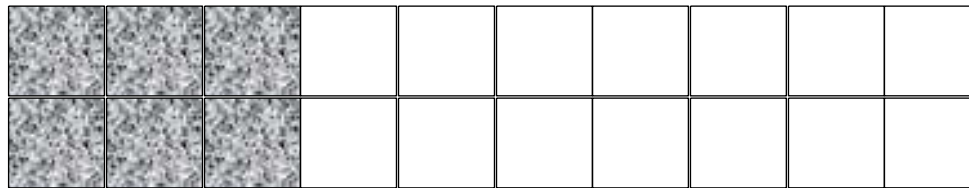
$$\frac{6}{20}$$

C

$$\frac{5}{20}$$



E



✓ 4.NS.6

Which shows **six tenths** correctly?
Darken the correct answer.

A 0.06

B $\frac{6}{100}$

C 0.6

D $\frac{10}{6}$

*✓ 4.NS.5

Drag and drop the correct symbol to fill in the circle from the Selection Menu to make each statement true.

Not all the symbols in the Selection Menu will be used.

1. $\frac{3}{4}$ $\frac{5}{8}$

2. $\frac{2}{5}$ $\frac{4}{10}$

3. $\frac{2}{3}$ $\frac{3}{4}$

Selection Menu

= +

- <

>

✓ 4.NS.6

Which shows **thirty-five hundredths** correctly?
Darken the correct answer.

A 0.035

B 3500

C 0.35

D 350

*✓ 4.NS.7

Which comparison is true?
Darken the correct answer.

A $1.6 > 1.74$

B $2.21 < 2.3$

C $2.07 = 2.7$

D $1.25 > 2.1$

✓ 4.NS.6

Find the correct answer for **2.5** written as a fraction.
Darken the correct answer.

A

$$\frac{10}{25}$$

B

$$\frac{10}{250}$$

C

$$\frac{25}{100}$$



$$\frac{25}{10}$$

*✓ 4.NS.7

Which comparison is true?
Darken the correct answer.

A $2.69 > 2.96$

B $2.2 = 2.02$

C $2.69 < 2.7$

D $1.97 > 2.9$

Day 2

COMPUTATION

16-26%

✓+ **4.C.1**

Add and subtract multi-digit whole numbers fluently using a standard algorithmic approach.

*✓+ **4.C.2**

Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Describe the strategy and explain the reasoning.

*✓+ **4.C.3**

Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Describe the strategy and explain the reasoning.

✓+ **4.C.4**

Multiply fluently within 100.

✓+ **4.C.5**

Add and subtract fractions with common denominators. Decompose a fraction into a sum of fractions with common denominators. Understand addition and subtraction of fractions as combining and separating parts referring to the same whole.

✓+ **4.C.6**

Add and subtract mixed numbers with common denominators (e.g. by replacing each mixed number with an equivalent fraction and/or by using properties of operations and the relationship between addition and subtraction).

✓ + 4.C.1

Solve:

$$\begin{array}{r} 128 \\ + 439 \\ \hline \end{array}$$

(A) 557

(B) 577

(C) 587

(D) 567

✓+ 4.C.1

Solve:

$$\begin{array}{r} 532 \\ - 439 \\ \hline \end{array}$$

(A) 83

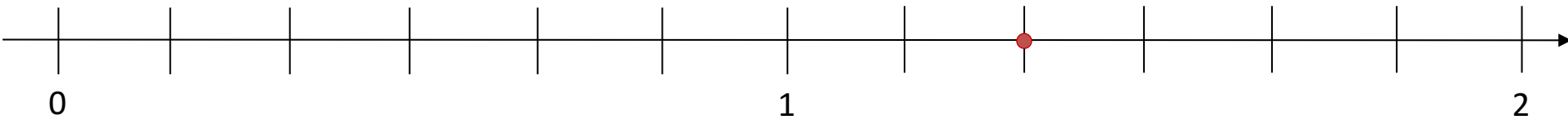
(B) 93

(C) 103

(D) 113

✓+ 4.C.5

The point on the number line shows the value of the sum of two fractions.



Which expression has the same sum?
Darken the correct letter choice.

A $\frac{4}{3} + \frac{4}{3}$

B $\frac{6}{4} + \frac{2}{4}$

C $\frac{5}{6} + \frac{3}{6}$

D $\frac{2}{12} + \frac{6}{12}$

✓+ 4.C.2 & 4.C.3

The science fair projects are set up on tables. There are 99 long tables used. Each long table holds 7 projects. The rest of the projects are set up on short tables. Each short table can hold 4 projects. What is the **fewest** number of short tables that will be needed for the rest of the projects? Darken the correct letter choice.

City-Wide Science Fair	
Grade	Number of Projects
3	462
4	759
5	891

(A) 202

(B) 203

(C) 354

(D) 355

✓+ 4.C.2 & 4.C.3

The science fair judges will be science teachers and volunteers. Each judge will only have time to view 5 science fair projects. There are 133 science teachers.

What is the **fewest** number of volunteers needed to have enough judges for all of the projects? Darken the correct letter choice.

City-Wide Science Fair	
Grade	Number of Projects
3	462
4	759
5	891

A 290

B 396

C 422

D 423

✓+ 4.C.1

The table shows the number of yards Ed ran in each of the first three football games of the season.

Ed's Running Yards	
Game	Yards
1	157
2	309
3	172

After the first three games of the season, Rico had exactly 3 times the total number of running yards that Ed had. How many **more** total running yards did Rico have than Ed after the first three games of the season? Darken the correct letter choice.

A 638

B 1276

C 838

D 1914

✓+ 4.C.2 & 4.C.3

A basketball team scored a total of 747 points for the season. This was 9 times the number of points scored in the first game. How many points were scored during the first game? Darken the correct letter choice.

A 73

B 75

C 82

D 83

✓+ 4.C.1

What is the sum?

$$\begin{array}{r} 6,574 \\ + \underline{2,465} \\ \hline \end{array}$$

Darken the correct answer choice.

A 4,109

B 8,039

C 8,939

D 9,039

✓+ 4.C.4

What is the product?

$$\begin{array}{r} 12 \\ \times \underline{6} \end{array}$$

Write your answer on the blank.

Answer 72

✓+ 4.C.2

What is the product?

$$\begin{array}{r} 58 \\ \times \underline{9} \end{array}$$

Write your answer on the blank.

Answer 522

Subtract:

$$7\frac{3}{4} - 2\frac{2}{4}$$

A $9\frac{1}{4}$

B $5\frac{1}{8}$

C $5\frac{1}{4}$

D $9\frac{1}{8}$

✓+ 4.C.4

Which statement is true?
Darken the correct answer choice.

(A)
$$\begin{array}{r} 12 \\ \times 4 \\ \hline 46 \end{array}$$

(B)
$$\begin{array}{r} 15 \\ \times 6 \\ \hline 85 \end{array}$$

(C)
$$\begin{array}{r} 17 \\ \times 3 \\ \hline 41 \end{array}$$

(D)
$$\begin{array}{r} 18 \\ \times 5 \\ \hline 90 \end{array}$$

✓+ 4.C.3

Find the quotient.
Darken the correct
letter choice.

$$4 \overline{) 2104}$$

A 413

B 526

C 530

D 676

✓+ 4.C.5

Which number makes the equation $1\frac{3}{4} + \square = 3\frac{2}{4}$ true?

Darken the correct letter choice.

A $5\frac{1}{4}$

B $2\frac{1}{4}$

C $\frac{2}{4}$



D $1\frac{3}{4}$

✓ + 4.C.5

Drag and drop the correct fraction pairs to the answer blank from the Selection Menu to make each statement true.

Not all the fraction pairs in the Selection Menu will be used.

$$\frac{1}{2} = \underline{\hspace{10em}}$$

$$\frac{3}{4} = \underline{\hspace{10em}}$$

Selection Menu

$$\frac{1}{8} + \frac{5}{8}$$

$$\frac{2}{8} + \frac{5}{8}$$

$$\frac{1}{3} + \frac{1}{6}$$

$$\frac{1}{4} + \frac{1}{4}$$

$$\frac{1}{2} + \frac{1}{3}$$

$$\frac{1}{4} + \frac{1}{4} + \frac{1}{4}$$

✓+ 4.C.2

What is the product?

$$\begin{array}{r} 3547 \\ \times \quad 8 \\ \hline \end{array}$$

Darken the correct answer choice.

A 24,376

B 24,076

C 28,336

D 28,376

Select the **three** expressions that are equivalent to $3\frac{7}{10}$.

A $\frac{1}{10} + \frac{3}{10} + \frac{1}{10} + \frac{2}{10}$

B $\frac{1}{10} + \frac{4}{10} + \frac{2}{10} + \frac{30}{10}$

C $2 + \frac{3}{10} + 1\frac{4}{10}$

D $\frac{7}{10} + \frac{7}{10} + \frac{7}{10}$

E $\frac{5}{10} + \frac{1}{10} + \frac{1}{10} + 3$

✓+ 4.C.4

Which statement is true?
Darken the correct answer choice.

A $\begin{array}{r} 13 \\ \times 4 \\ \hline 52 \end{array}$

B $\begin{array}{r} 15 \\ \times 5 \\ \hline 55 \end{array}$

C $\begin{array}{r} 17 \\ \times 5 \\ \hline 62 \end{array}$

D $\begin{array}{r} 18 \\ \times 4 \\ \hline 62 \end{array}$

✓+ 4.C.3

What is the quotient of..... $3420 \div 4$?

Write your answer on the blank.

Answer

855

✓+ 4.C.4

Find the **two** correct answers.

A $16 \times 4 = 54$

B $17 \times 2 = 24$

C $12 \times 5 = 60$

D $11 \times 7 = 77$

E $14 \times 4 = 46$

F $11 \times 5 = 59$

✓+ 4.C.6

Add:

$$\begin{array}{r} 7\frac{3}{4} \\ + 2\frac{2}{4} \\ \hline \end{array}$$

A $9\frac{1}{4}$

B $10\frac{1}{4}$

C $5\frac{1}{4}$

D $5\frac{5}{4}$

Day 3A

Algebra Functions & Data Analysis

18-28%

***✓+ 4.AT.1**

Solve real-world problems involving addition and subtraction of multi-digit whole numbers (e.g., by using drawings and equations with a symbol for the unknown number to represent the problem).

***✓ 4.AT.2**

Recognize and apply the relationships between addition and multiplication, between subtraction and division, and the inverse relationship between multiplication and division to solve real-world and other mathematical problems.

***✓ 4.AT.4**

Solve real-world problems with whole numbers involving multiplicative comparison (e.g., by using drawings and equations with a symbol for the unknown number to represent the problem), distinguishing multiplicative comparison from additive comparison. [In grade 4, division problems should not include a remainder.]

***✓+ 4.AT.5**

Solve real-world problems involving addition and subtraction of fractions referring to the same whole and having common denominators (e.g., by using visual fraction models and equations to represent the problem).

***✓ 4.DS.1**

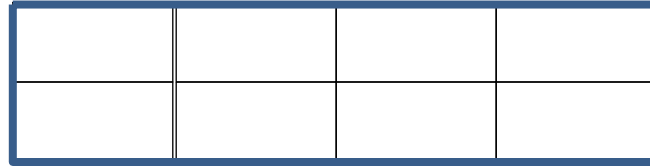
Formulate questions that can be addressed with data. Use observations, surveys, and experiments to collect, represent, and interpret the data using tables (including frequency tables), line plots, and bar graphs.

✓ 4.DS.2

Make a line plot to display a data set of measurements in fractions of a unit ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$). Solve problems involving addition and subtraction of fractions by using data displayed in line plots.

***✓+ 4.AT.5**

The rectangle is divided into eight equal sections.



Jodi colors 4 sections. Then she colors 3 more sections.

Which **two** of these represent the fraction of the rectangle that Jodi colors in all?

$\frac{4}{8} + \frac{3}{8}$

$\frac{1}{8} + 3$

$4 + 3$

$\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

$\frac{8}{4} + \frac{8}{3}$

*✓+ 4.AT.1

Mr. Harvey has a total of 148 balloons. He has 112 white balloons and an equal number of red, green, blue, and yellow balloons.

How many red balloons does Mr. Harvey have?
Place your answer on the blank below.

Answer 9 red balloons

*✓ 4.AT.2

Mike is 3 years old. Joe is 6 times as old as Mike.
Which equation shows how to find Joe's age?
Darken the correct letter choice.

A $6 \div 3 = 2$

B $9 - 3 = 6$

C $3 \times 6 = 18$

D $3 + 6 = 9$

***✓+ 4.AT.1**

The table shows the number of pennies Nolan saved each week for four weeks.

Pennies Saved	
Weeks	Number of Pennies
Week 1	18
Week 2	40
Week 3	32
Week 4	25

What is the total number of pennies Nolan saved during the four weeks? Darken the correct letter choice.

A 105

B 115

C 95

D 100

*✓+ 4.AT.1

The first day, Paul starts with 744 stamps. He buys 27 stamps from his friend. He then sells 139 stamps. What is the total number of stamps that Paul has after the first day of the stamp show? Darken the correct letter choice.

A 622

B 642

C 612

D 632

***✓+ 4.AT.5**

Each student in a class chose one sport to play. The table shows the fractions of all students who chose each sport.

Which equation can be used to find s , the fraction of all students that chose to play either soccer or basketball?

Darken the correct letter choice.

A $\frac{3}{10} + \frac{4}{10} = s$

B $\frac{2}{10} - \frac{1}{10} = s$

C $\frac{4}{10} + \frac{2}{10} = s$

D $\frac{4}{10} - \frac{3}{10} = s$

***✓+ 4.AT.1**

The table shows the number of computers sold at a store in three different months.

Month	Number of Computers
January	6,521
February	2,374
March	2,498

What is the total number of computers sold at the store in the three months? Place your answer on the answer blank.

Answer 11,393

***✓+ 4.AT.1**

The table shows the number of computers sold at a store in three different months.

Month	Number of Computers
January	6,521
February	2,374
March	2,498

How many **more** computers were sold at the store in January than in both February and March combined?
Place your answer on the answer blank.

Answer 1,649

*✓ 4.AT.4

Sean buys 5 packages of fish. There is $\frac{7}{8}$ pound of fish in each package. What is the total weight, in pounds, of fish that Sean buys? Darken the correct letter choice.

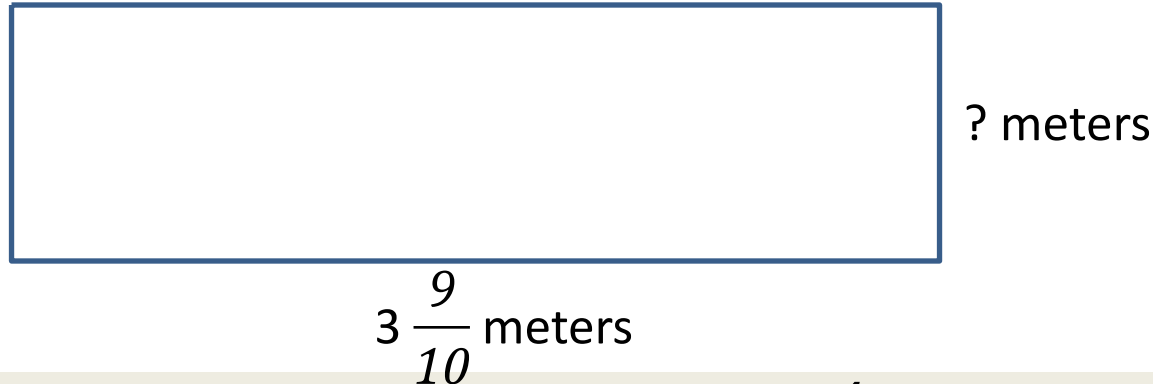
(A) $1\frac{2}{8}$

(B) $1\frac{4}{8}$

(C) $3\frac{5}{8}$

(D) $4\frac{3}{8}$

The model shows a hallway in Clark's house.



The perimeter of the hallway is $10 \frac{4}{10}$ meters.

What is the width, in meters, of the hallway?
Darken the correct letter choice.

A $1 \frac{3}{10}$ meters

B $2 \frac{6}{10}$ meters

C $6 \frac{5}{10}$ meters

D $7 \frac{5}{10}$ meters

Which situation is represented by the equation $10 \times 3 = \square$?
Darken the correct letter choice.

- A Ron saved \$10. Megan saved \$3 more than Ron. How much money does Megan have?
- B Ron saved \$10. Megan saved \$3 more than Ron. How much money do they have in all?
- C Ron saved \$10. Megan saved 3 times as much as Ron did. How much money does Megan have?
- D Ron saved \$10. Megan saved 3 times as much as Ron did. How much money do they have in all?

***✓+ 4.AT.5**

Joel had $3\frac{2}{3}$ pizzas. His friends ate $1\frac{1}{3}$ of the pizzas.

How much of pizza is left? Darken the correct letter choice.

A $2\frac{2}{3}$ pizza

B $1\frac{1}{3}$ pizza

C $1\frac{1}{6}$ pizza

D $2\frac{1}{3}$ pizza

Day 3B

*✓ 4.DA.1

The information about animals in the Chicago Zoo is shown in the table.

Animals at Chicago Zoo	
Kind	Number
Lions	5
Elephants	10
Snakes	4
Monkeys	9
Rabbits	8

Which two statements best describes the information in the table?

- A The total number of animals is 36.
- B There are twice as many Lions as Elephants.
- C There are twice as many Elephants as Lions.
- D There are more Lions and Snakes than Elephants.
- E There are fewer Rabbits than Snakes.

*✓ 4.AT.2

There are 324 seats in a theater. There are 9 rows with the same number of seats in each row.

How many seats are there in each row?
Place your answer on the answer blank.

Answer 36 seats

*✓+ 4.AT.5

Megan has a set of 10 mugs. The set is made up of three different kinds of mugs.

- $\frac{1}{2}$ of the mugs have a picture on them.
- $\frac{2}{5}$ of the mugs have words on them.
- $\frac{1}{10}$ of the mugs have words on them.

Select the **three** number sentences that correctly compare two of these fractions.

A $\frac{1}{2} < \frac{2}{5}$

$\frac{1}{2} > \frac{2}{5}$

C $\frac{1}{2} < \frac{1}{10}$

D $\frac{1}{2} > \frac{1}{10}$

$\frac{1}{10} < \frac{2}{5}$

F $\frac{1}{10} > \frac{2}{5}$

***✓ 4.DA.1**

Cara asked each member of her class how many pets they owned. The results are shown.

2, 2, 0, 4, 2, 2, 4, 1, 0, 4, 1, 1, 2, 2, 3, 1, 2, 0, 3

Which frequency table correctly displays the results?
Darken the correct answer choice.

A

Number of Pets Owned
by Students

Number of Pets	Frequency
0	3
1	4
2	7
3	2
4	3

B

Number of Pets Owned
by Students

Number of Pets	Frequency
0	3
1	4
2	6
3	2
4	2

C

Number of Pets Owned
by Students

Number of Pets	Frequency
0	3
1	5
2	6
3	2
4	2

D

Number of Pets Owned
by Students

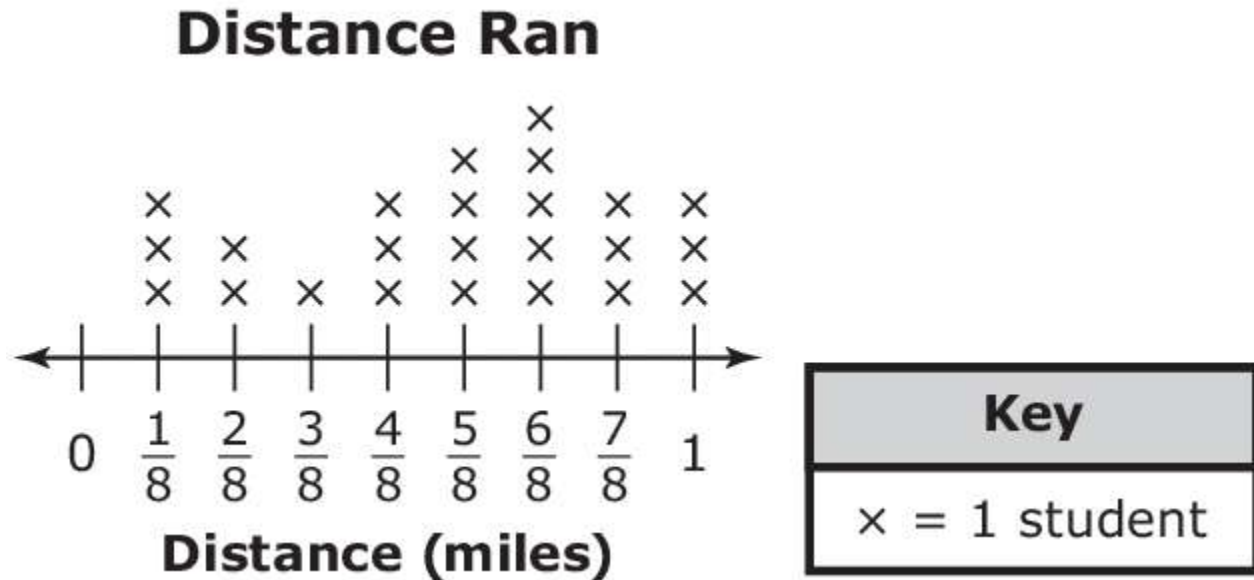
Number of Pets	Frequency
0	2
1	5
2	6
3	2
4	2

Which situation can be represented by the equation $2 \times 3 = \square$?
Darken the correct letter choice.

- A Carol saves \$2, and Tina saves \$3 more than Carol. How much does Tina save?
- B Carol saves \$2, and Tina saves 3 times as much as Carol. How much does Tina save?
- C Carol saves \$2, and Tina saves \$3 more than Carol. How much do they save in all?
- D Carol saves \$2, and Tina saves 3 times as much as Carol. How much do they save in all?

✓ 4.DA.2

The line plot shows the distance ran by each student on a track team. Study the line plot.



What is the difference between the distance ran by the most students and the distance ran by the fewest students on the track team? Darken the correct answer choice.

A $\frac{2}{8}$

B $\frac{3}{8}$

C $\frac{4}{8}$

D $\frac{5}{8}$

***✓+ 4.AT.1**

The population of three cities in Indiana is shown in the chart.

Population (people)	
Hammond	80,830
South Bend	100,800
Gary	79,170

How many more people live in South Bend than Hammond?
Put your answer on the blank below.

Answer 19,970 people

Which situation can be represented by the equation $5 \times 4 = \square$?
Darken the correct letter choice.

- A Jim has 5 pencils. Tonya has 4 more pencils than Jim. How many pencils does Tonya have?
- B Jim has 5 pencils. Tonya has 4 more pencils than Jim. How many pencils do they have in all?
- C Jim has 5 pencils. Tonya has 4 times as many pencils as Jim. How many pencils does Tonya have?
- D Jim has 5 pencils. Tonya has 4 times as many pencils as Jim. How many pencils do they have in all?

*✓ 4.AT.4

Ben and David are collecting cans to recycle.
Ben collected 3 times as many cans as David.
David collected 15 cans.

How many cans did Ben collect?
Place your answer on the answer blank.

Answer _____

45

***✓ 4.DA.1**

At Sara's party, her guests reached into a box to pull out a balloon to decorate and blow up. The colors they pulled out were:

red, white, red, green, white, blue, red, yellow, white, green, red, white, white, blue, green

Which frequency table correctly displays this data? Darken the correct letter choice.

COLORS OF BALLOONS

A

Color	Number of Balloons
blue	2
green	3
red	4
yellow	3
white	5

B

COLORS OF BALLOONS

Color	Number of Balloons
blue	2
green	3
red	4
yellow	1
white	6

COLORS OF BALLOONS

C

Color	Number of Balloons
blue	2
green	5
red	4
yellow	1
white	5

D

COLORS OF BALLOONS

Color	Number of Balloons
blue	2
green	3
red	4
yellow	1
white	5

*✓ 4.AT.2

Select the equation that has the same unknown number as

$$308 \div 7 = \square.$$

Darken the correct letter choice.

A $7 \times \square = 308$

B $7 \times 308 = \square$

C $308 \times \square = 7$

D $\square \times 308 = 7$

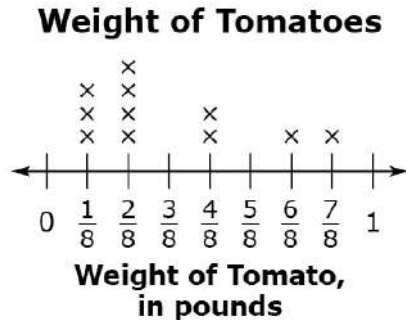
*✓ 4.DA.1

Kathy weighs tomatoes from her garden. The weight of each tomato, in pounds, is shown.

$$\frac{2}{8}, \frac{1}{8}, \frac{4}{8}, \frac{2}{8}, \frac{2}{8}, \frac{6}{8}, \frac{2}{8}, \frac{7}{8}, \frac{1}{8}, \frac{4}{8}$$

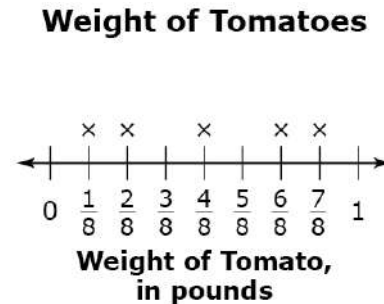
Which line plot correctly displays the weights of Kathy's tomatoes?
Darken the correct letter choice.

A



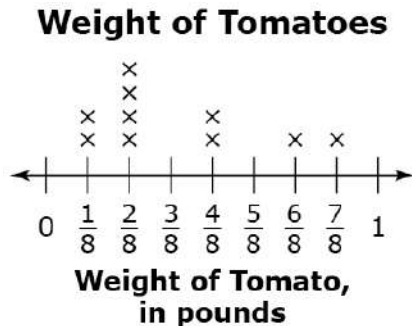
Key
x = 1 tomato

B



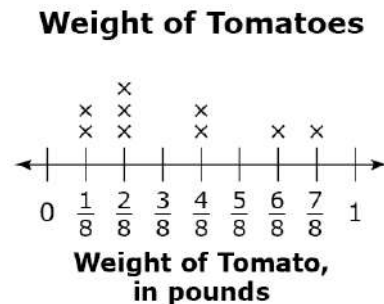
Key
x = 1 tomato

C



Key
x = 1 tomato

D



Key
x = 1 tomato

*✓ 4.AT.2

Clara has granola bars to give out after her soccer game.

- She has 6 peanut butter granola bars.
- She has 3 times as many chocolate chip granola bars as peanut butter granola bars.
- A total of 16 granola bars are given out.

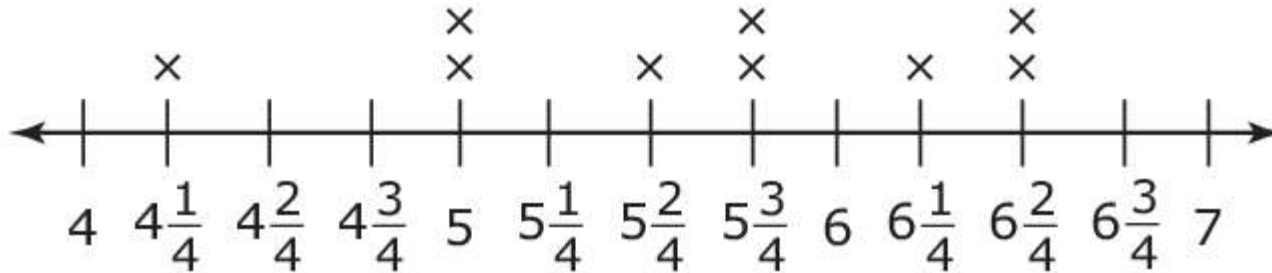
How many granola bars does Clara have left over?

Place your answer on the answer blank.

Answer 8

✓ 4.DA.2

A student compared the heights of nine players on his basketball team. The line plot shows the heights, in feet, of each player.



Heights of Players (in feet)

How much taller, in feet, is the tallest player compared to the shortest player? Place your answer on the answer blank.

Answer $2\frac{1}{4}$ feet

***✓+ 4.AT.1**

The population of three cities in Indiana is shown in the chart.

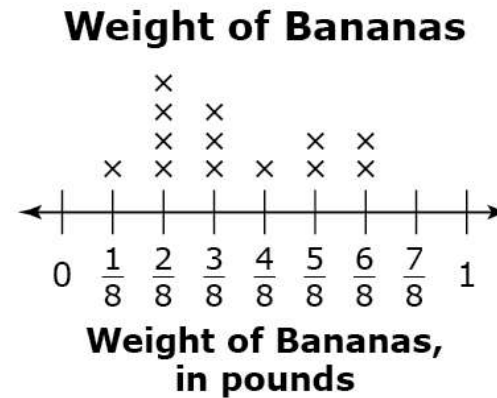
Population (people)	
Hammond	80,830
South Bend	100,800
Gary	79,170

How many people live in all three cities?
Darken the correct letter choice.

- A 260,700 B 260,800 C 250,800 D 270,800

✓ 4.DA.2

Jane weighs bananas and records the weight of each banana on the line plot.



Key
x = 1 banana

What is the difference, in pounds, between the banana that weighs the **most** and the banana that weighs the **least**?

Place your answer on the answer blank.

Answer $\frac{5}{8}$ pounds

Day 4A

Geometry & Measurement

20-30%

✓ **4.M.1**

Measure length to the nearest quarter-inch, eighth-inch, and millimeter.

✓ **4.M.2**

Know relative sizes of measurement units within one system of units, including km, m, cm; kg, g; lb, oz; l, ml; hr, min, sec. Express measurements in a larger unit in terms of a smaller unit within a single system of measurement. Record measurement equivalents in a two-column table.

*✓ **4.M.3**

Use the four operations (addition, subtraction, multiplication and division) to solve real-world problems involving distances, intervals of time, volumes, masses of objects, and money. Include addition and subtraction problems involving simple fractions and problems that require expressing measurements given in a larger unit in terms of a smaller unit.

*✓+ **4.M.4**

Apply the area and perimeter formulas for rectangles to solve real-world problems and other mathematical problems. Recognize area as additive and find the area of complex shapes composed of rectangles by decomposing them into non-overlapping rectangles and adding the areas of the non-overlapping parts; apply this technique to solve real-world problems and other mathematical problems.

✓ **4.M.6**

Measure angles in whole-number degrees using appropriate tools. Sketch angles of specified measure.

✓ 4.M.2

How many quarts are in 5 gallons?
Darken the correct letter choice.

1 pint = 2 cups

1 quart = 2 pints

1 gallon = 4 quarts

A 5 quarts

B 10 quarts

C 15 quarts

D 20 quarts

*✓ 4.M.3

What is the total value of money shown?
Darken the correct letter choice.



A \$1.20

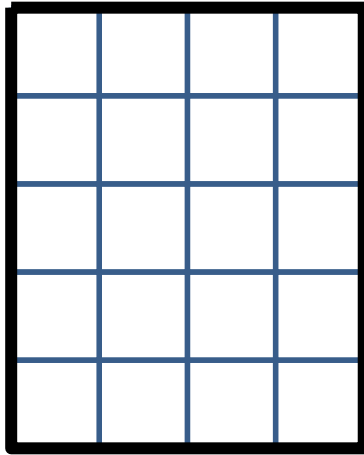
B \$1.25

C \$1.30

D \$1.35

*✓+ 4.M.4

Find the area of the rectangle shown.
Darken the correct letter choice.



- A 15 square units
- B 20 square units
- C 25 square units
- D 30 square units

***✓+ 4.M.3**

Linda went to a movie that started at 12:10. The movie ended at 2:00. How long was the movie?

Darken the correct answer choice.

- A 2 hours and 10 minutes B 1 hour and 50 minutes
- C 2 hours and 50 minutes D 1 hour and 40 minutes

What is the **area** of the rectangle?
Darken the correct letter choice.



- A 10 inches
- B 20 inches
- C 24 square inches
- D 48 square inches

What is the **perimeter** of the rectangle?
Darken the correct letter choice.

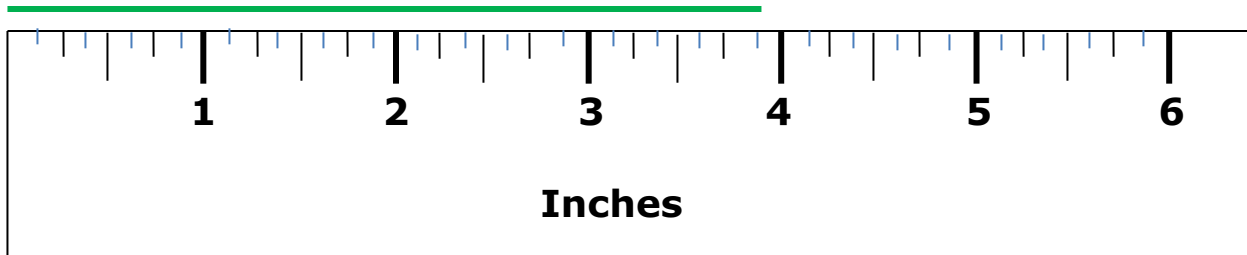


- A 8 inches
- B 16 inches
- C 15 square inches
- D 25 square inches

✓ 4.M.1

Measure the string to the nearest $\frac{1}{8}$ inch.

Darken the correct letter choice.



(A)

$3\frac{5}{8}$ inches

(B)

$3\frac{3}{4}$ inches

(C)

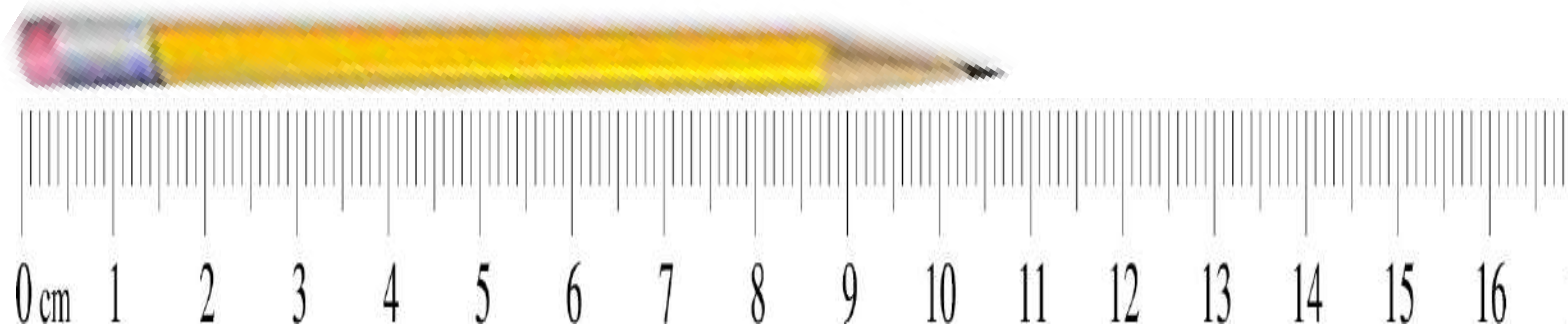
$3\frac{1}{2}$ inches

(D)

$3\frac{7}{8}$ inches

✓ 4.M.1

Measure the pencil to the nearest millimeter.
Place your answer on the answer blank.

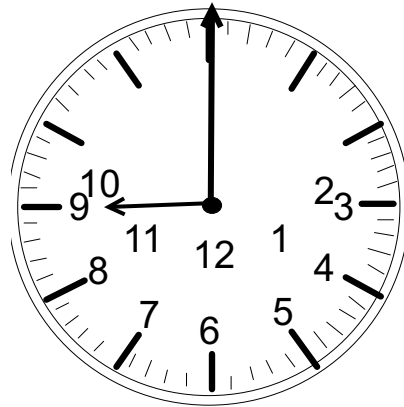


Answer 106 or 7 millimeters

*✓+ 4.M.3

Steve's school starts at 9:00 in the morning. It takes Steve 45 minutes to walk to school and get to his class on time. What time should Steve leave for school to be on time?

Place your answer on the answer blank below.



Answer 8:15

*✓ 4.M.3

Libby has coins and bills in her purse as shown.



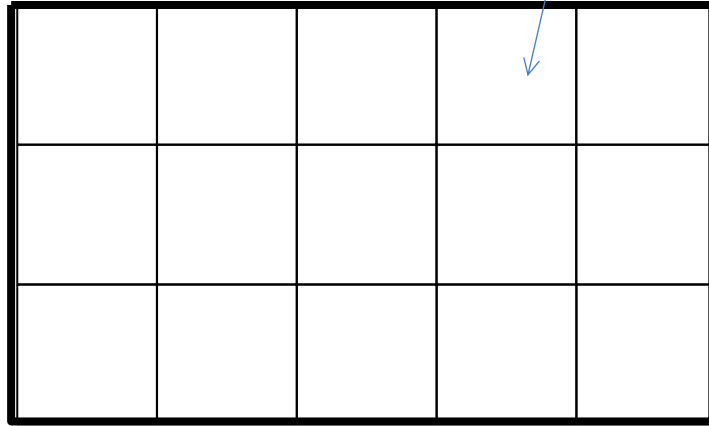
Libby wants to buy a new pen for school.
Does Libby have enough money to buy the pen?



Answer : YES or **NO**

***✓+ 4.M.4**

Find the area of the rectangle. Each small square is 1 square unit. Place your answer on the answer blank.



Answer _____ **15** _____ square units

*✓+ 4.M.3

Josh is at the bus stop at 8:10 in the morning for school pick up. He arrives at school at 9:15. How much time was the bus ride to school?

Darken the correct answer choice.



1 hour and 5 minutes



1 hour and 10 minutes



55 minutes



50 minutes

✓ 4.M.2

How many pints in 2 gallons?
Darken the correct letter choice.

1 pint = 2 cups

1 quart = 2 pints

1 gallon = 4 quarts

A 4 pints

B 15 pints

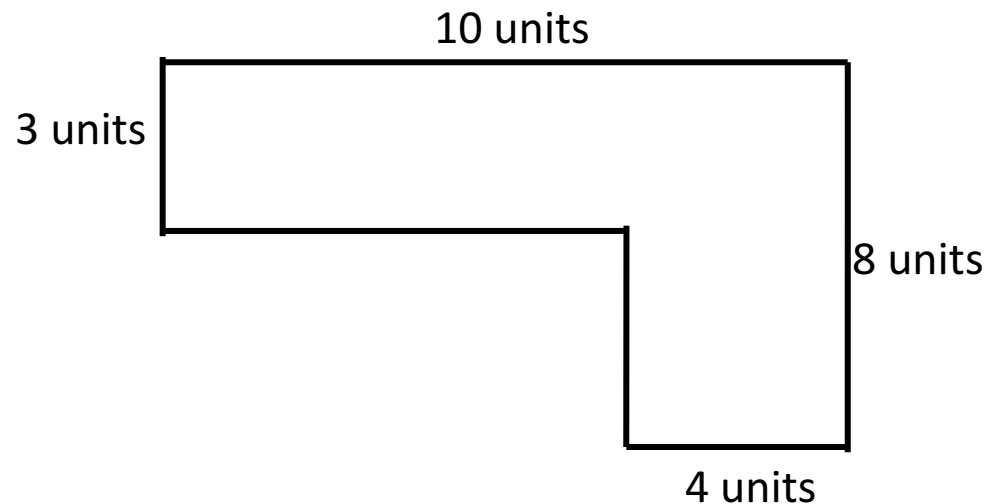
C 8 pints

D 16 pints

*✓+ 4.M.4

Find the area of the shape.

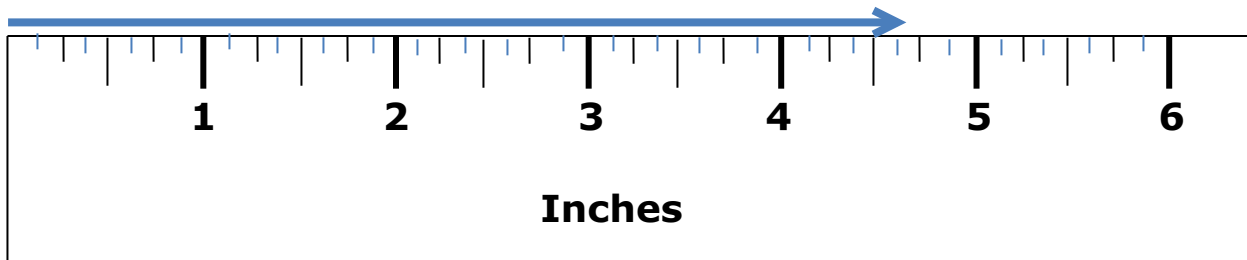
Darken the correct letter choice.



- A 36 square units
- B 30 square units
- C 50 square units
- D 52 square units

✓ 4.M.1

Measure the arrow to the nearest $\frac{1}{8}$ inch.
Darken the correct letter choice.



A

$4\frac{5}{8}$ inches

B

$4\frac{3}{4}$ inches

C

$4\frac{1}{2}$ inches

D

$4\frac{7}{8}$ inches

1 hour = 60 minutes

1 day = 24 hours

What number makes the equation true?
Darken the correct letter choice.

$$6 \text{ hours} = \square \text{ minutes}$$

(A) 36 minutes

(B) 66 minutes

(C) 180 minutes

(D) 360 minutes

Day 4B

***✓+ 4.M.3**

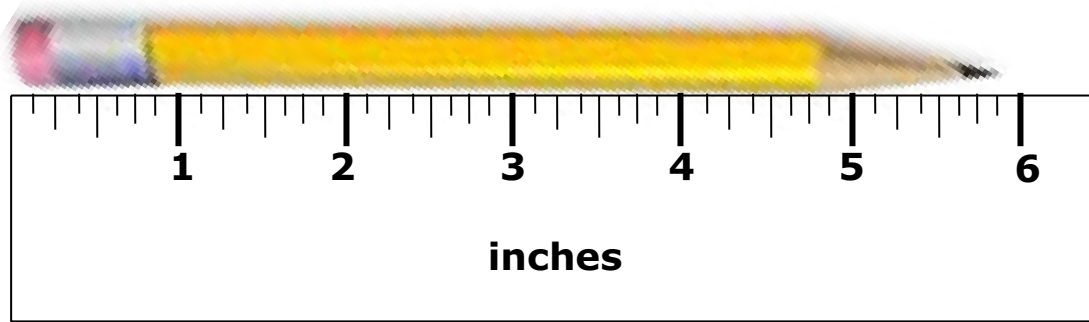
Shawn practiced in the school choir on Tuesday for $1\frac{1}{2}$ hours and Thursday for $2\frac{1}{2}$ hours. How many hours did Shawn practice altogether?

Place your answer on the answer blank.

Answer 4 hours

✓ 4.M.1

Measure the pencil to the nearest $\frac{1}{8}$ inch.
Place your answer on the answer blank.

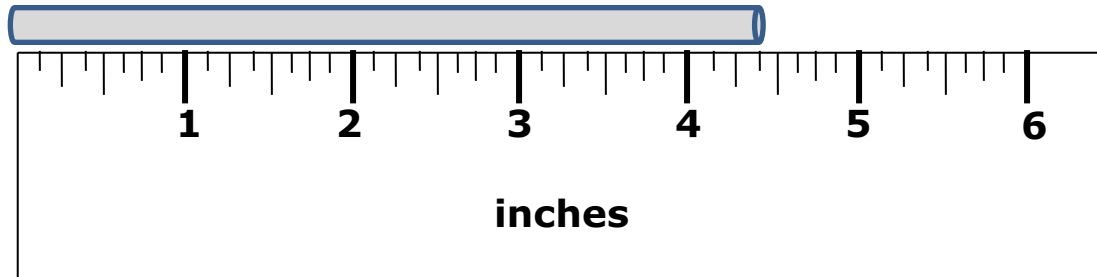


Answer 5 $\frac{7}{8}$ inches

✓ 4.M.1

How long is the stick?

Darken the correct letter choice.



A

$4 \frac{1}{8}$ inches

B

$4 \frac{1}{4}$ inches

C

$4 \frac{3}{8}$ inches

D

$4 \frac{1}{2}$ inches

***✓+ 4.M.3**

The 4th grade basketball game at Morton Elementary School is scheduled to start at 4:00 pm. Mrs. Smith lives 40 minutes from Morton Elementary school. What is the latest time that Mrs. Smith should leave home to be on time for the game?

Place your answer on the answer blank below.

Answer 3:20 pm

Which work is correct for finding the area of the rectangle?
Darken the correct letter choice.



- A $5 \text{ inches} + 8 \text{ inches} = 13 \text{ inches}$
- B $5 + 8 + 5 + 8 = 26 \text{ inches}$
- C $8 \text{ inches} - 5 \text{ inches} = 3 \text{ square inches}$
- D $8 \text{ inches} \times 5 \text{ inches} = 40 \text{ square inches}$

***✓+ 4.M.4**

The **perimeter** of the rectangle is 22 inches.
What is the length of the missing side in inches?
Darken the correct letter choice.



A 4 inches

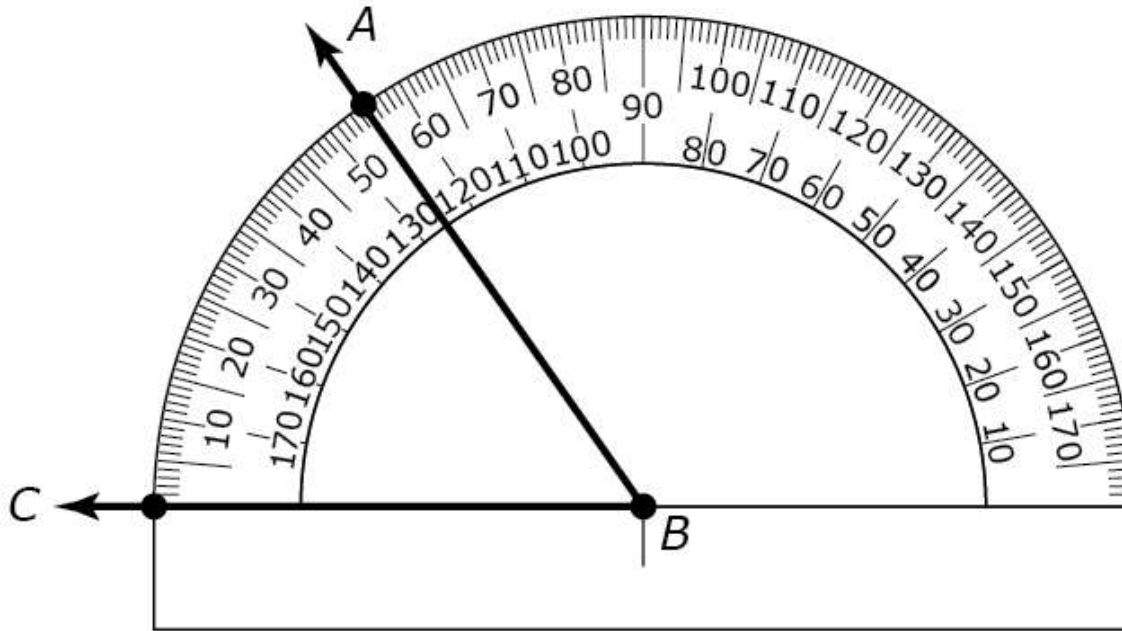
B 6 inches

C 7 inches

D 8 inches

✓ 4.M.6

Angle ABC is measured using the protractor shown.



What is the measure of $\angle ABC$? Darken the correct letter choice.

A 50°

B 125°

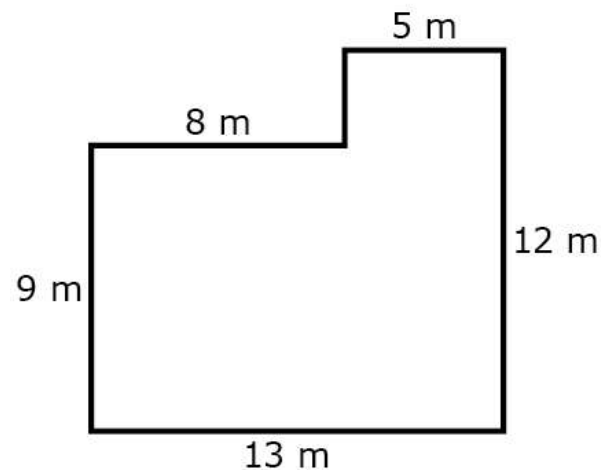
C 55°

D 130°

Look at this diagram of a city swimming pool.

What is the area of the swimming pool?
Darken the correct letter choice.

City Swimming Pool



- A 157 square meters
- B 156 square meters
- C 47 square meters
- D 132 square meters

The floor of Isaiah's garage has the length and width shown.

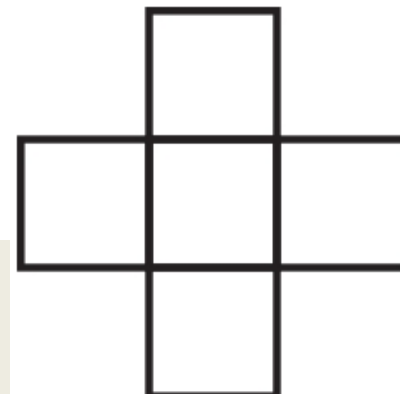
What is the area, in square feet, of the garage floor?

Darken the correct letter choice.



- A 34 square feet
- B 68 square feet
- C 240 square feet
- D 480 square feet

Mathew used 5 squares to create the figure shown. He claims that he can arrange these five squares into different figures without changing the total perimeter.

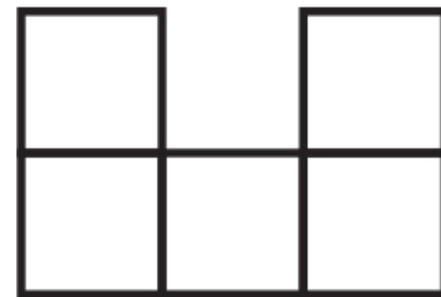


Which figure proves that Mathew's claim is incorrect? Darken the correct letter choice.

A



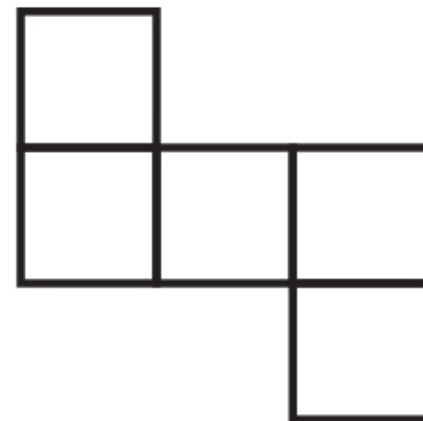
B



C



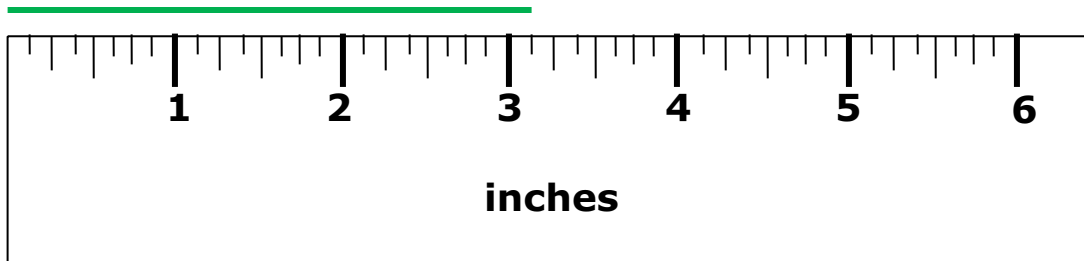
D



✓ 4.M.1

Measure the string to the nearest $\frac{1}{8}$ inch.

Darken the correct letter choice.



(A) $3\frac{3}{8}$ inches

(B) $3\frac{2}{8}$ inches

(C) $3\frac{1}{2}$ inches

(D) $3\frac{1}{8}$ inches

***✓+ 4.M.3**

Jerry works for his grandfather after school.

On Monday Jerry worked $7\frac{3}{4}$ hours.

On Tuesday Jerry worked $2\frac{3}{4}$ hours.

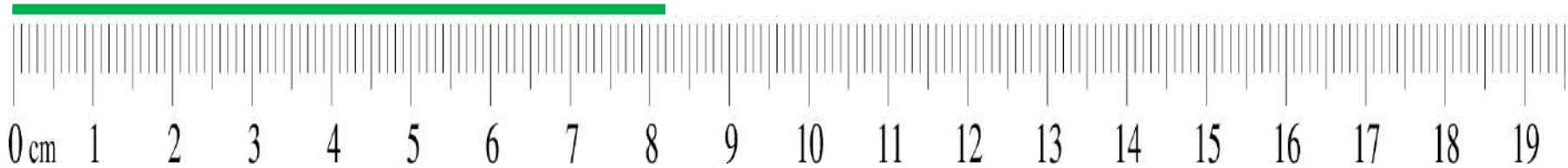
How many hours did Jerry work in all?

Place your answer on the answer blank.

Answer $10\frac{2}{4}$ or $10\frac{1}{2}$ hours

✓ 4.M.1

Measure the string to the nearest millimeter.
Select the correct letter choice



A

8.2 millimeters

B

8.5 centimeters

C

82 millimeters

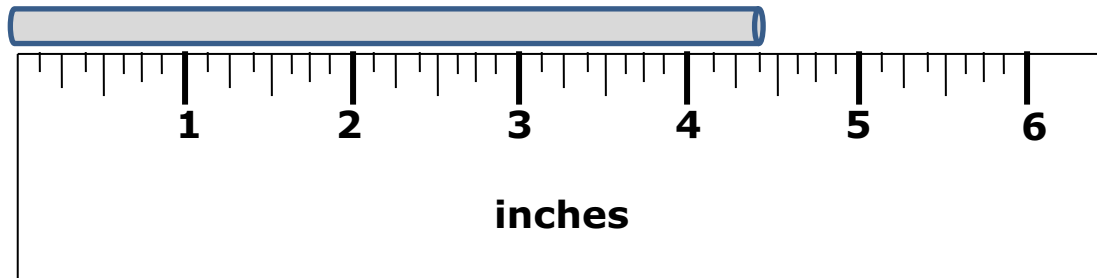
D

85 millimeters

✓ 4.M.1

How long is the stick?

Darken the correct letter choice.



A

$4 \frac{1}{8}$ inches

B

$4 \frac{1}{4}$ inches

C

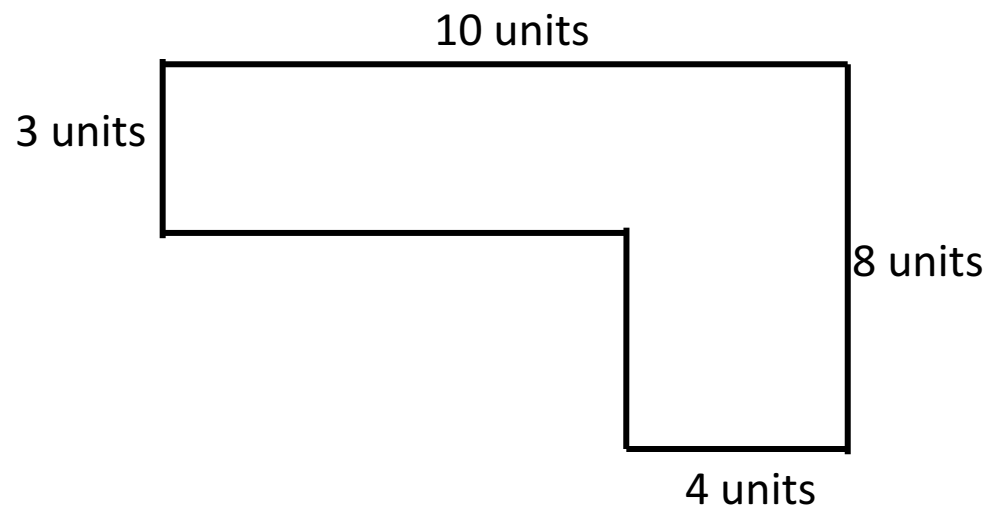
$4 \frac{3}{8}$ inches

D

$4 \frac{1}{2}$ inches

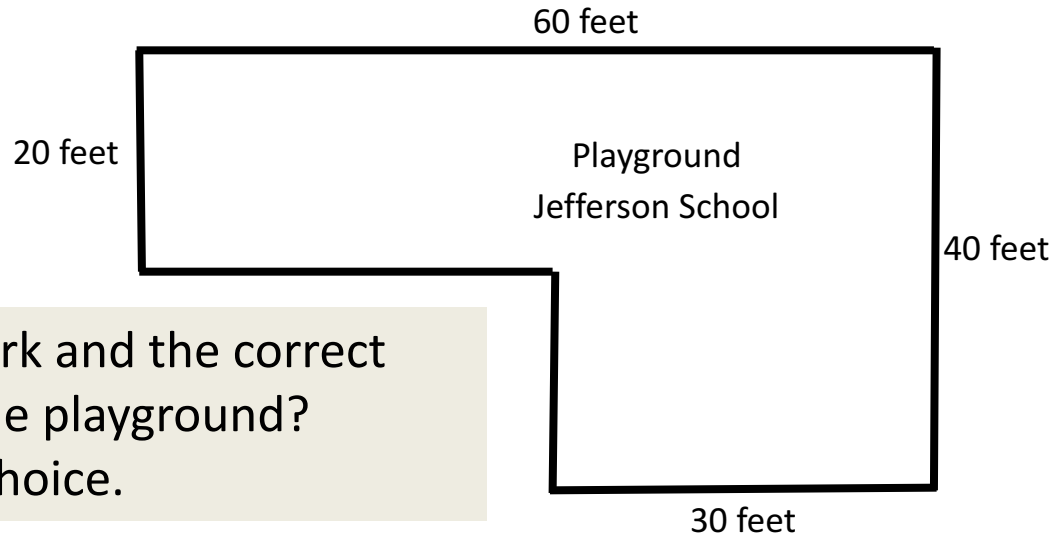
*✓+ 4.M.4

Find the perimeter of the shape.
Darken the correct letter choice.



- A 36 units
- B 25 units
- C 62 units
- D 60 units

Playground at Jefferson School has the shape shown below.



Which shows the correct work and the correct answer to find the area of the playground?
Darken the correct answer choice.

A Area = $30 \times 40 + 20 \times 30$
Area = $1200 + 600$
Area = 1800 square feet

B Area = $30 + 40 + 60 + 20$
Area = 150 square feet

C Area = $30 + 40 + 60 + 20 + 30 + 20$
Area = 200 square feet

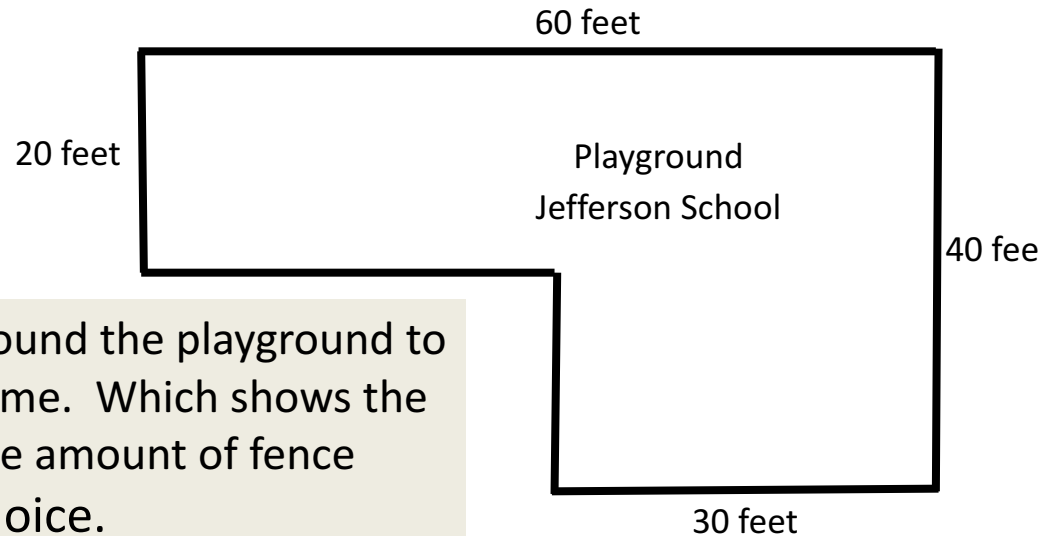
D Area = $30 \times 40 + 20 \times 20$
Area = $1200 + 400$
Area = 1600 square feet

✓ 4.M.2

Which two statements are true?
Darken the correct letter choice.

- A 2 pounds = 32 ounces
- B 2 meters = 12 centimeters
- C 1 kilometer = 100 meters
- D 2 hours = 120 minutes
- E 3 pounds = 30 ounces

Playground at Jefferson School has the shape shown below.



Jefferson School decided to put a fence around the playground to protect students from cars during recess time. Which shows the correct work and correct answer to find the amount of fence needed? Darken the correct answer choice.

A $30 \times 40 + 20 \times 30 =$
 $1200 + 600 =$
1800 feet of fence

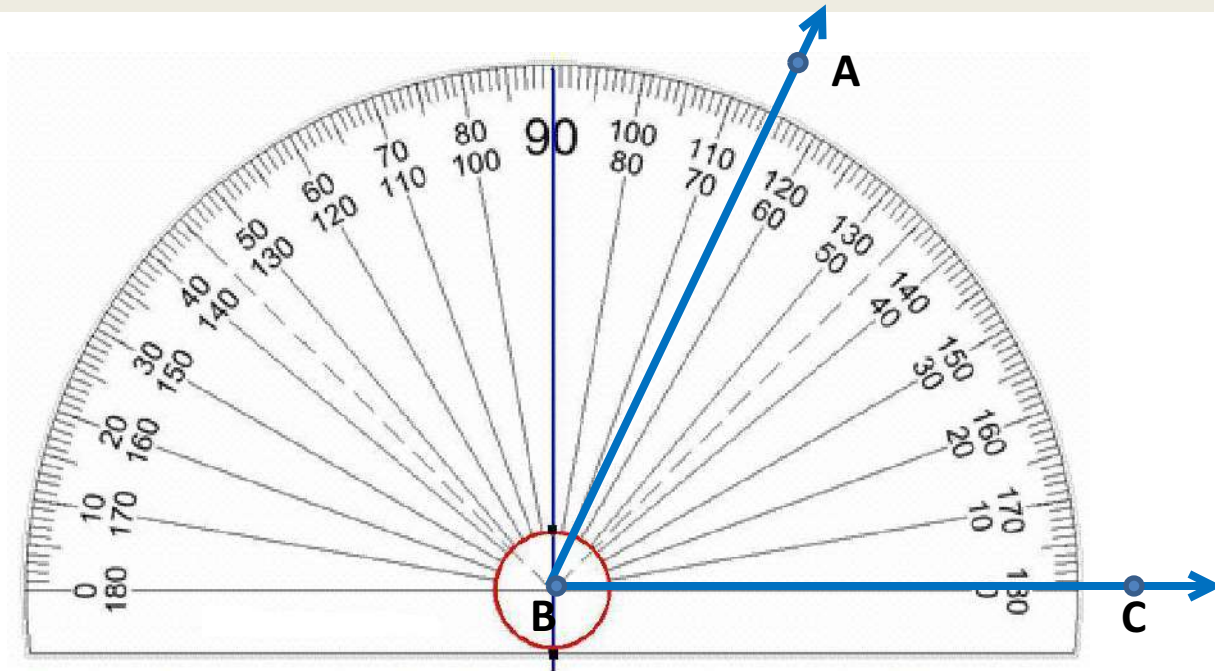
B $30 + 40 + 60 + 20 =$
150 feet of fence

C $30 + 40 + 60 + 20 + 30 + 20 =$
200 feet of fence

D $30 \times 40 + 20 \times 20 =$
 $1200 + 400 =$
1600 feet of fence

✓ 4.M.6

Angle ABC is measured using the protractor shown.



What is the measure of $\angle ABC$? Darken the correct letter choice.

A 55°

B 115°

C 65°

D 130°

Day 5

✓ **4.G.1**

Identify, describe, and draw parallelograms, rhombuses, and trapezoids using appropriate tools (e.g., ruler, straightedge and technology).

✓ **4.G.2**

Recognize and draw lines of symmetry in two-dimensional figures. Identify figures that have lines of symmetry.

✓ **4.G.4**

Identify, describe, and draw rays, angles (right, acute, obtuse), and perpendicular and parallel lines using appropriate tools (e.g., ruler, straightedge and technology). Identify these in two-dimensional figures.

✓4.G.1

Which two shapes are a trapezoid and a square?

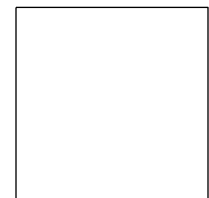
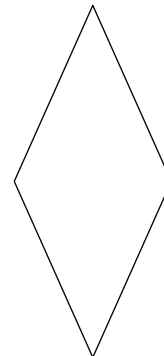
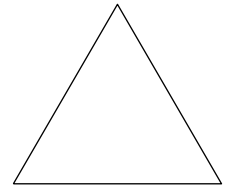
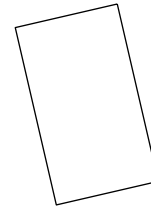
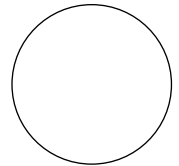
Drag and drop two shapes from the Selection Menu to the correct answer blanks.

Answers:

Square _____

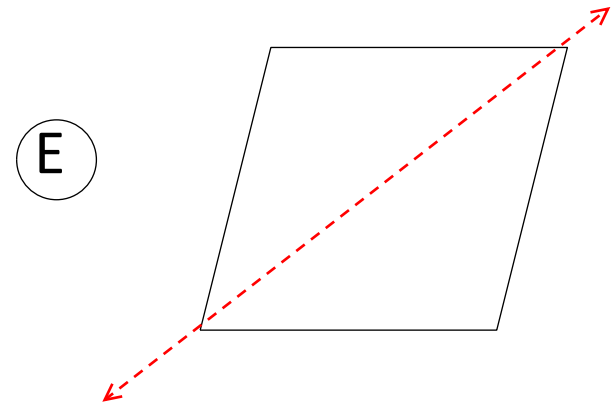
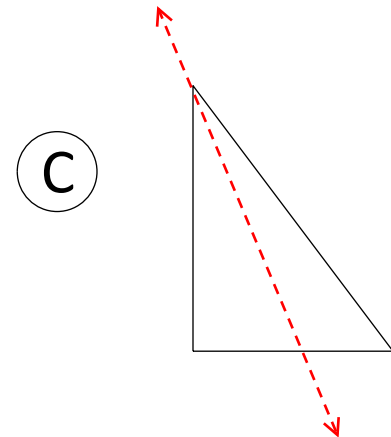
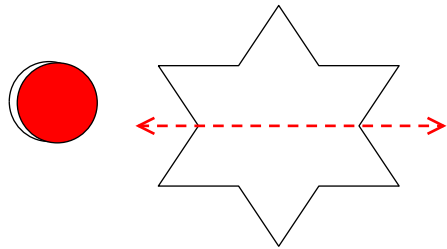
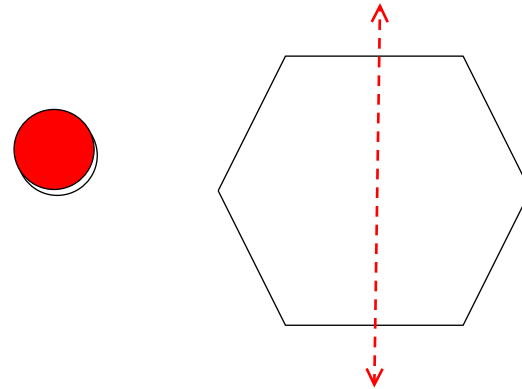
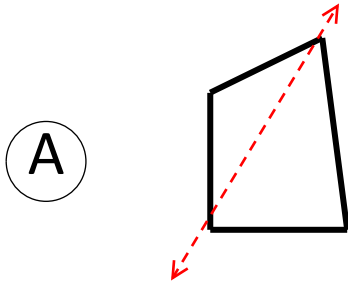
Trapezoid _____

Selection Menu



✓ 4.G.2

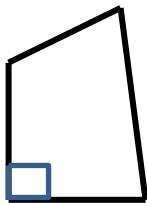
Which **two** shapes have a correct line of symmetry drawn?



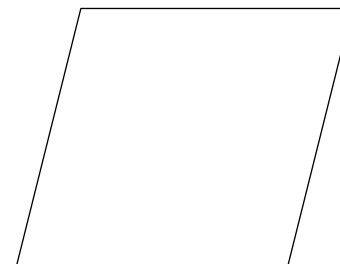
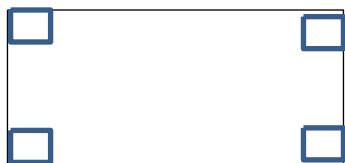
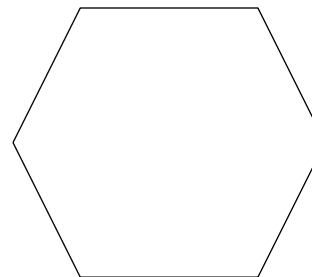
✓ 4.G.4

Which three shapes appear to have at least two parallel sides?

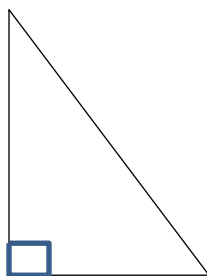
A



D



C



What is the total number of lines of symmetry that can be drawn on this shape?

Darken the correct letter choice.

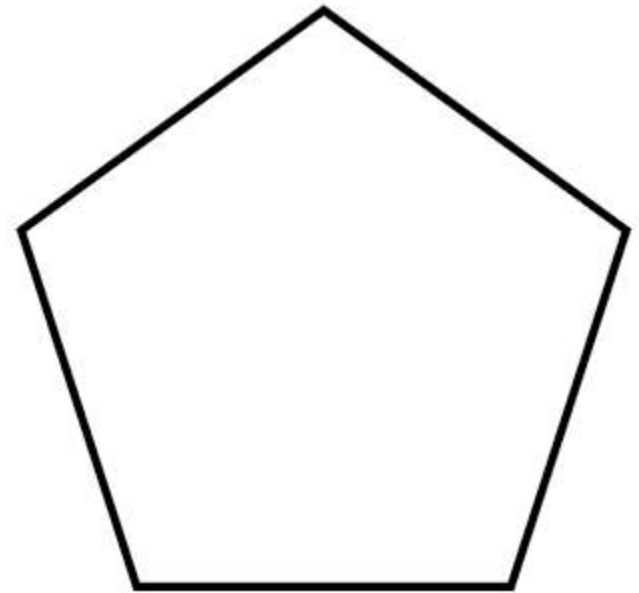
1

B 2

C 3

D 5

Look at the shape.

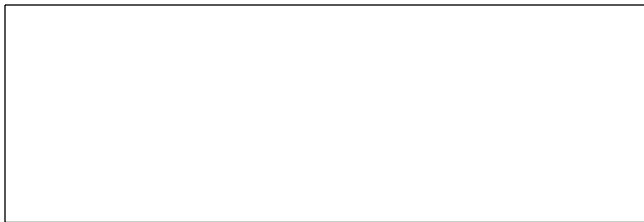
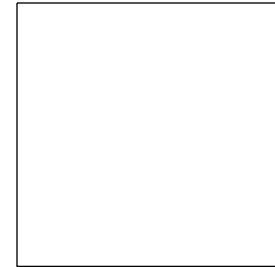


Which of these shapes has exactly 2 lines of symmetry?
Darken the correct answer choice.

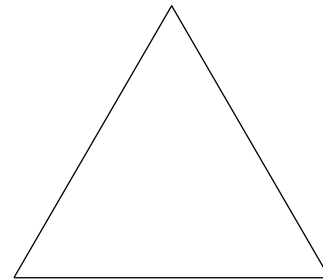
A



B



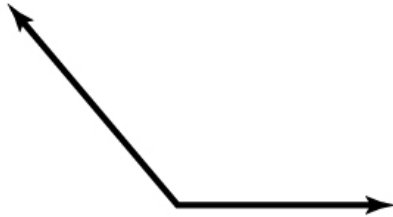
D



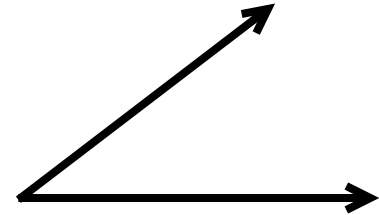
✓ 4.G.4

Which of these angles is an acute angle?
Darken the correct answer choice.

A



C



B

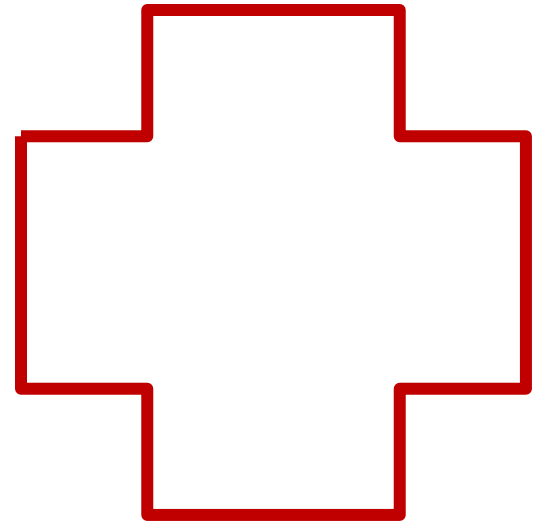


D

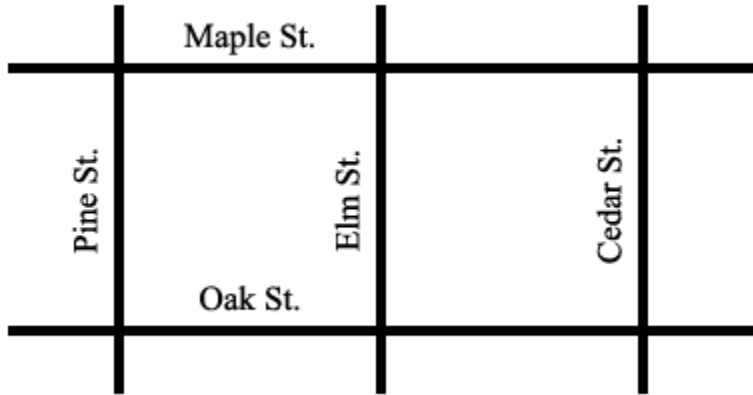


How many lines of symmetry does this shape have?
Darken the correct answer choice.

- A one line of symmetry
- B two lines of symmetry
- C three lines of symmetry
- D four lines of symmetry



Look at the diagram shown.



Which two streets are parallel? Darken the correct letter choice.

- A Oak Street and Cedar Street
- B Maple Street and Elm Street
- C Cedar Street and Pine Street
- D Elm Street and Oak Street

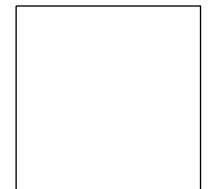
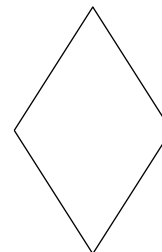
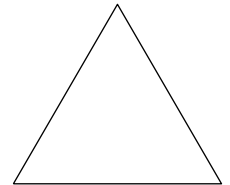
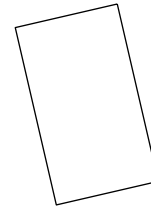
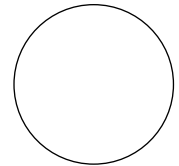
✓4.G.1

Which two shapes do not belong in this group of shapes?

Drag and drop two shapes from the Selection Menu to the correct answer blanks.

Answers:

Selection Menu



How many lines of symmetry does this shape have?
Darken the correct answer choice.

- one line of symmetry
- B two lines of symmetry
- C three lines of symmetry
- D four lines of symmetry

