Math
Spring Operational 2015

Grade 4
End of Year Released Items

M00103

1. Which number is the value of $90,372 + 41,685$?

   - A. 131,857
   - B. 131,957
   - C. 132,057
   - D. 135,117

M00242

2. Anne eats $\frac{3}{4}$ cup of raisins each day. How many total cups of raisins does Anne eat in 14 days?

   Enter your answer in the box.

VF540945

3. Choose the correct word or words to complete the statement.

   In the number 44,586, the value of the underlined 4 is Choose... times the value of the 4 to its right.

   - one
   - ten
   - one hundred
   - one thousand
   - ten thousand

M00077

4. What is the value of $9,348 + 2,237$?

Enter your answer in the box.

VF646344

5. Decide whether each sum is equivalent or not equivalent to $\frac{7}{10}$.

Select five correct boxes in the table.

	$\frac{3}{10} + \frac{4}{10}$	$\frac{2}{5} + \frac{5}{5}$	$\frac{1}{10} + \frac{6}{10}$	$\frac{7}{5} + \frac{7}{5}$	$\frac{3}{5} + \frac{4}{5}$
Equivalent	○	○	○	○	○
Not Equivalent	○	○	○	○	○

M00102

6. In one year, Janie sent 4,368 text messages. Tanner sent 4 times as many text messages as Janie. How many more text messages did Tanner send than Janie?

Enter your answer in the box.

VH033907

7. Drag and drop the **three** fractions that are equivalent to $\frac{1}{2}$ to the box.

$\frac{5}{10}$ | $\frac{4}{6}$ | $\frac{8}{12}$ | $\frac{4}{8}$ | $\frac{2}{4}$

M01702

8. What is the value of the expression shown?

$$5{,}736 - 4{,}859$$

- A. 1,877
- B. 1,123
- C. 977
- D. 877

VF497932

9. Enter your answer in the box to make the number sentence true.

$5{,}039 \times 8 =$ ☐

M01682

10. A factory makes 3,132 chairs each month. What is the total amount of chairs the factory makes in 9 months?

- A. 27,141
- B. 27,978
- C. 28,188
- D. 28,800

VF937828

11. Casey spent 18 minutes coloring. She spent 6 times as long reading.

How much time, in minutes, did Casey spend reading?

Enter your answer in the box.

VF559072

12. Select the symbol from the drop-down menu that correctly compares each pair of fractions.

$\frac{5}{6}$ yard Choose.. $\frac{3}{4}$ yard

< > =

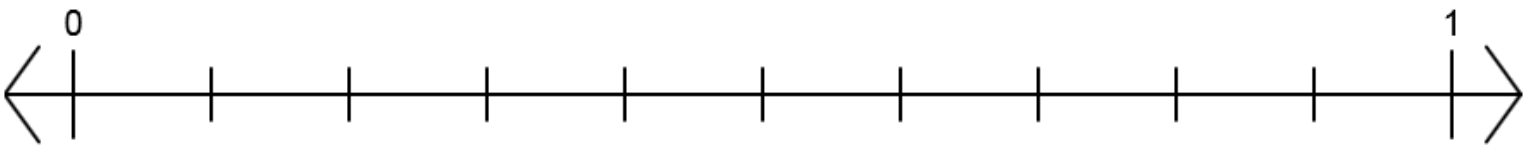
$\frac{5}{6}$ yard Choose.. $\frac{7}{8}$ yard

$\frac{5}{6}$ yard Choose.. $\frac{10}{12}$ yard

$\frac{5}{6}$ yard Choose.. $\frac{2}{3}$ yard

VF888479

13. Plot the point 0.29 on the number line. First, select a section of the number line to zoom in and then select the appropriate point.



M02214

14. The number shown is written in expanded form.

$$4,000 + 60 + 3$$

Which statements are true?

Select the **two** correct answers.

- [ ] A. The number is about 100 less than 4,200.
- [ ] B. The number is closer to 5,000 than it is to 4,000.
- [ ] C. When 350 is added to the number, the value is 4,980.
- [ ] D. When rounded to the hundreds place, the number is greater than 4,100.
- [ ] E. When the number is multiplied by 2, the product is greater than 8,100.

M02059

15. Subtract 3,946 from 6,784.

Enter your answer in the box.

VF649051

16. An airplane flew 1,155 miles on its first trip and 1,695 miles on its second trip.

What is the total number of miles the airplane flew on these two trips?

Enter your answer in the box.

VF524236

17. Fill in the missing numbers to complete the division problem.

Enter your answers in the boxes.

$6,957 \div 7 =$ ☐

Remainder: ☐

M01870

18. Which expression is equivalent to $6 \times \frac{2}{3}$?

- A. $3 \times \frac{1}{3}$
- B. $4 \times \frac{1}{3}$
- C. $8 \times \frac{1}{3}$
- D. $12 \times \frac{1}{3}$

VF907994

19. Drag and drop the numbers and a symbol into the boxes to show an equation that represents the statement "161 is 7 times as many as 23."

+ − × ÷ 23 161

☐ = 7 ☐ ☐

M01835

20. During a class trip to an apple farm, a group of students picked 2,436 apples. They packed them into 6 boxes to take to the local food bank. If each box held the same number of apples, how many apples were in each box?

- A. 46 apples
- B. 406 apples
- C. 460 apples
- D. 4,060 apples

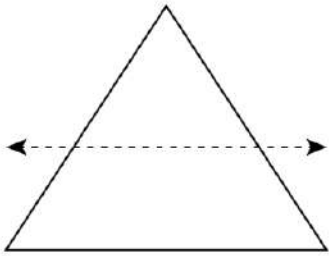
21. A photographer has 591 photos of animals and 234 photos of plants. He wants to put all of the photos into photo books. Each page of the photo books holds 8 photos. What is the fewest number of pages he could use in the photo books?

- A. 73
- B. 74
- C. 103
- D. 104

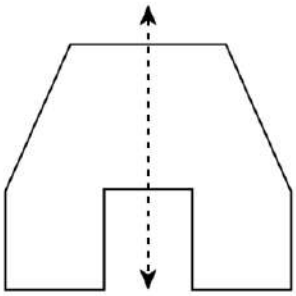
22. Which of these show lines of symmetry?

Select the **three** correct answers.

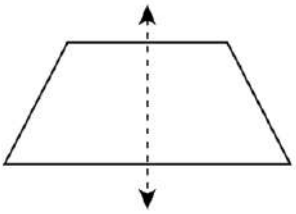
☐ A.



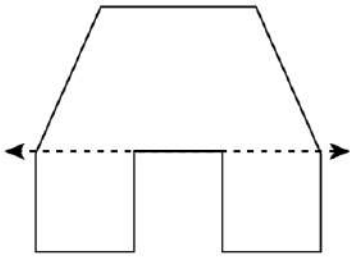
☐ B.



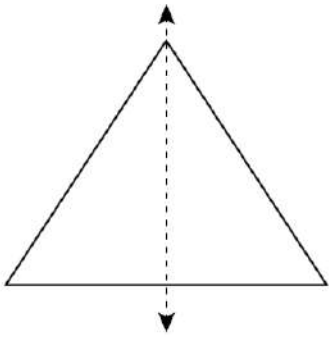
☐ C.



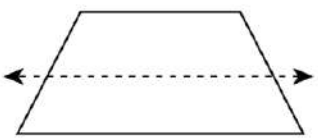
☐ D.



☐ E.

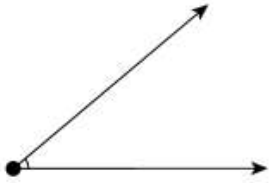


☐ F.



M01842

23. Look at the angle shown.

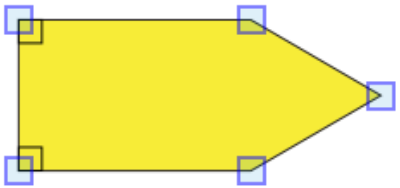


Which measure is closest to the measure of the angle?

- A. 140°
- B. 90°
- C. 40°
- D. 15°

M00629

24. Select each right angle in the figure.



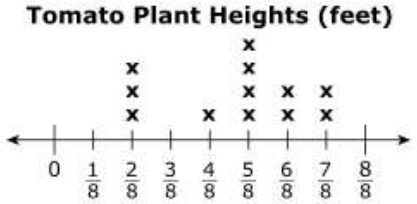
25. Which of these numbers are prime numbers?

Select the **three** numbers that are prime.

- [ ] A. 15
- [ ] B. 19
- [ ] C. 27
- [ ] D. 37
- [ ] E. 43
- [ ] F. 51

M02066

26. The line plot represents the heights, in feet, of tomato plants in a garden.



What is the difference, in feet, between the tallest and shortest plant heights?

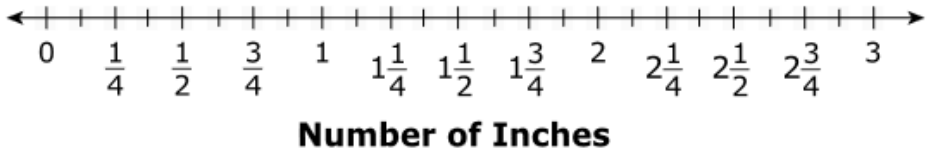
- A. $\frac{1}{8}$
- B. $\frac{3}{8}$
- C. $\frac{5}{8}$
- D. $\frac{7}{8}$

VF524361

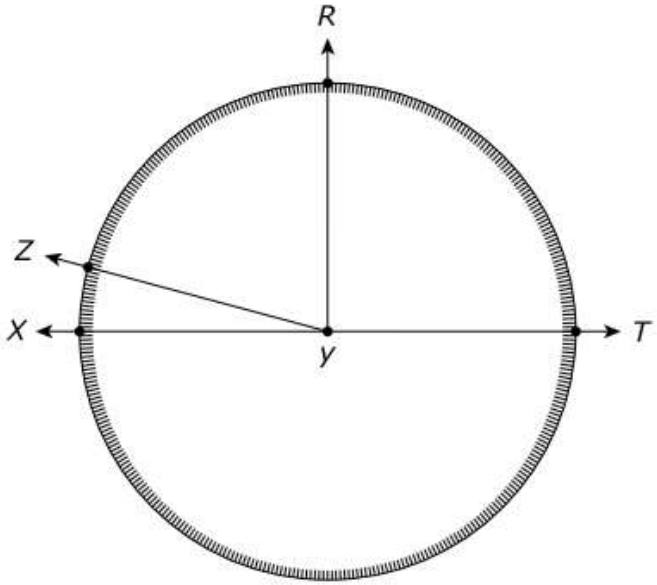
27. Sam cut $\frac{3}{4}$ inch off a piece of ribbon that was 2 inches long.

Place a point on the number line to show the length, in inches, of the remaining ribbon.

Mark on the number line to plot the point.



28. The circle is divided into 360 equal parts. Point *y* represents the center of the circle.



Choose the correct angle to complete the sentence.

The measure of angle Choose.. is 15 degrees.

- RYX
- TYX
- XYZ
- ZYR

29. A warehouse had 800 boxes of pens with 30 pens in each box.

Part A

What is the total number of pens in **all** the boxes?

Enter your answer in the box.

Part B

All the boxes were loaded onto 40 crates for shipping. Each of the 40 crates was loaded with the same number of boxes.

How many pens were in each crate after the boxes were loaded?

Enter your answer in the box.

30. Kyra had a sheet of stickers. She gave $\frac{5}{8}$ of the sheet of stickers to Phil. She gave $\frac{2}{8}$ of the sheet of stickers to Lisa.

Part A

What fraction of the sheet of stickers did Kyra give to Phil and Lisa in all?

Enter your answer in the boxes.

$\frac{\square}{\square}$

Part B

What is the difference between the fraction of the sheet of stickers Kyra gave to Phil and the fraction of the sheet of stickers she gave to Lisa?

Enter your answer in the boxes.

$\frac{\square}{\square}$

31. **Part A**

A plant grew $\frac{3}{10}$ meter in April and $\frac{27}{100}$ meter in May. Which expression can be used to find the total amount the plant grew during the two months?

- A. $\frac{3}{10} + \frac{27}{10}$
- B. $\frac{30}{10} + \frac{27}{10}$
- C. $\frac{3}{100} + \frac{27}{100}$
- D. $\frac{30}{100} + \frac{27}{100}$

Part B

A plant grew $\frac{3}{10}$ meter in April and $\frac{27}{100}$ meter in May. In June, the plant grew another $\frac{13}{100}$ meter. Which fractions are equivalent to the fraction of a meter the plant grew during the three months?

Select the **two** correct answers.

- [ ] A. $\frac{7}{10}$
- [ ] B. $\frac{40}{10}$
- [ ] C. $\frac{70}{10}$
- [ ] D. $\frac{4}{100}$
- [ ] E. $\frac{40}{100}$
- [ ] F. $\frac{70}{100}$

32. The table shows the heights of three different plants.

PLANT HEIGHTS

Type of Plant	Height (feet)
tomato	$\frac{1}{3}$
pepper	$\frac{3}{6}$
bean	$\frac{5}{12}$

Part A

Which statements about the heights of the plants are true?

Select the **three** correct statements.

- ☐ A. The bean plant is the tallest plant.
- ☐ B. The tomato plant is the shortest plant.
- ☐ C. The pepper plant is taller than the bean plant.
- ☐ D. The tomato plant is shorter than the bean plant.
- ☐ E. The pepper plant is shorter than the tomato plant.

Part B

How much taller is the tallest plant than the shortest plant?

- ○ A. $\frac{1}{12}$ foot
- ○ B. $\frac{2}{12}$ foot
- ○ C. $\frac{6}{12}$ foot
- ○ D. $\frac{10}{12}$ foot

33. The table below shows the number of points scored by three video game players.

Player	Number of Points
player one	8,209
player two	3,824
player three	3,317

Part A

What is the combined number of points for all three players?

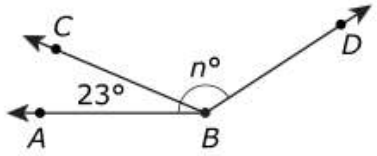
- A. 12,340
- B. 12,033
- C. 14,330
- D. 15,350

Part B

How many more points does player one have than the combined points of player two and player three?

- A. 1,068
- B. 2,078
- C. 7,702
- D. 8,716

34. Some angles are shown.



Part A

The measure of angle *ABD* is 147°. Which of these equations could be used to find the measure of angle *CBD*?

- A. $23 + n = 147$
- B. $n - 23 = 147$
- C. $23 \times n = 147$
- D. $147 \div 23 = n$

Part B

What is the measure, in degrees, of angle *CBD*?

Enter your answer in the box.

[ ] °

35. **Part A**

A truck delivers 32 cases of soup to a store. Each case holds 8 cans of soup. The store manager plans to place 9 cans on each shelf. What is the fewest number of shelves the manager will need for all of the cans of soup delivered by the truck?

- A. 4
- B. 5
- C. 28
- D. 29

Part B

The same truck delivers 9 cases of canned corn. Each case holds 36 cans of corn. When the cases are unpacked, 15 of the cans are missing. The store manager places 7 cans of corn on each shelf. What is the fewest number of shelves the manager will need for all of the cans of corn delivered by the truck?

- A. 44
- B. 45
- C. 46
- D. 47

36. Of the students in one school, $\frac{1}{12}$ play soccer, $\frac{3}{8}$ play basketball, $\frac{2}{5}$ take music lessons, and $\frac{2}{6}$ take dance lessons.

Part A

Which fraction is equivalent to the fraction of students who take music lessons at the school?

- A. $\frac{3}{6}$
- B. $\frac{5}{8}$
- C. $\frac{4}{10}$
- D. $\frac{4}{12}$

Part B

Which list orders the fractions from least to greatest?

- A. $\frac{1}{12}, \frac{2}{5}, \frac{2}{6}, \frac{3}{8}$
- B. $\frac{2}{5}, \frac{3}{8}, \frac{2}{6}, \frac{1}{12}$
- C. $\frac{2}{5}, \frac{2}{6}, \frac{3}{8}, \frac{1}{12}$
- D. $\frac{1}{12}, \frac{2}{6}, \frac{3}{8}, \frac{2}{5}$