

Answer Key

Entering 5th Grade Summer Math Packet

First Name: _____ Last Name: _____

5th Grade Teacher: _____

I have checked the work completed: _____
Parent Signature

Select the one best answer for each question. **DO NOT** use a calculator in completing this packet.

1. Which of the following sets of numbers are **all** of the factors of 24?

- A. 1, 3, 8, 24
- B. 2, 4, 6, 8, 12, 24
- C. 2, 3, 4, 6, 8, 12
- ☒ D. 1, 2, 3, 4, 6, 8, 12, 24

2. Which of the following numbers is a multiple of 8?

- A. 18
- B. 28
- C. 44
- ☒ D. 56

3. The following are all multiples of a one-digit number: 12, 24, 30, 42.

- A. 5
- ☒ B. 6
- C. 7
- D. 8

4. Which number is a multiple of 3?

- A. 83
- B. 84
- ☒ C. 85
- D. 86

5. Which of the following set of numbers are all multiples of 7?

- A. 35, 47, 52
- B. 35, 36, 37
- ☒ C. 35, 42, 49
- D. 37, 47, 57

6. Al sees this sign at a copy center. What is the least number of copies Al can make without losing any money?

1. Copies cost 10¢ each.
2. Copy machines only take quarters.
3. Copy machines do NOT make change.
If you make 1 copy, you will NOT get 15¢ back.

- ☒ A. 5
B. 30
C. 75
D. 150
7. Which of the following is NOT true about prime numbers?
- A. They have exactly two factors
B. One is a factor of every prime number
C. No prime numbers end in zero
☒ D. All prime numbers are odd numbers
8. Which set does NOT contain any multiples of 4?
- A. {24, 36, 42, 54}
B. {12, 15, 20, 24}
C. {8, 16, 24, 34}
☒ D. {6, 10, 14, 18}
9. I am a factor of 36 and a multiple of 3. What number am I?
- A. 2
B. 4
☒ C. 12
D. 15
10. Since $4 \times 10 = 40$, and $40 \times 5 = 200$, then which of the following is true?
- A. $14 \times 45 = 200$
☒ B. $4 \times 10 \times 5 = 200$
C. $4 \times 10 \times 40 = 200$
D. $40 \times 10 \times 5 = 200$
11. My number is a multiple of 5. It is less than 100 and has a factor of 6. What is my number?
- A. 25 ☒ C. 60
B. 36 D. 66

12. Write the products: Practice any you do not know quickly.

4	8	11	2	2	7	10	12	6	5	9	5	0
$\times 2$	$\times 4$	$\times 2$	$\times 5$	$\times 3$	$\times 5$	$\times 3$	$\times 4$	$\times 3$	$\times 4$	$\times 4$	$\times 3$	$\times 2$
8	32	22	10	6	35	30	48	18	20	36	15	0

3	9	2	5	7	10	6	5	11	1	4	8	11
$\times 3$	$\times 5$	$\times 7$	$\times 5$	$\times 4$	$\times 4$	$\times 4$	$\times 2$	$\times 5$	$\times 3$	$\times 5$	$\times 2$	$\times 4$
9	45	14	25	28	40	24	10	55	3	20	16	44

6	8	6	3	9	10	12	3	7	4	9	4	12
$\times 5$	$\times 4$	$\times 2$	$\times 4$	$\times 3$	$\times 2$	$\times 3$	$\times 5$	$\times 3$	$\times 4$	$\times 2$	$\times 3$	$\times 2$
30	32	12	12	27	20	36	15	21	16	18	12	24

9	7	5	2	6	7	3	4	5	8	3	11	5
$\times 8$	$\times 6$	$\times 10$	$\times 7$	$\times 9$	$\times 7$	$\times 8$	$\times 6$	$\times 9$	$\times 7$	$\times 9$	$\times 7$	$\times 7$
72	42	50	14	54	49	24	24	45	56	27	77	35

9	2	6	4	5	6	4	8	10	3	7	4	7
$\times 6$	$\times 9$	$\times 7$	$\times 11$	$\times 6$	$\times 8$	$\times 9$	$\times 8$	$\times 8$	$\times 6$	$\times 8$	$\times 7$	$\times 9$
54	18	42	44	30	48	36	64	80	18	56	28	63

2	3	9	8	2	3	9	7	0	2	5	4	6
$\times 6$	$\times 12$	$\times 9$	$\times 6$	$\times 8$	$\times 6$	$\times 7$	$\times 8$	$\times 9$	$\times 12$	$\times 8$	$\times 9$	$\times 6$
12	26	81	48	16	18	63	56	0	24	40	36	36

13. Since $5 \times 20 = 100$, which number will complete the number sentence below to make it true?

$$5 \times \underline{\quad} \times 5 = 100$$

- ☒ A. 4
- ☐ B. 5
- ☐ C. 20
- ☐ D. 25

14. Solve $136 - 67$.

- ☐ A. 61
- ☒ B. 69
- ☐ C. 71
- ☐ D. 79

15. Solve $206 - 48$.

- ☒ A. 158
- B. 242
- C. 162
- D. 262

16. Which expression is equal to 3×49 ?

- A. $3 \times (4 + 9)$
- B. $3 + (40 \times 9)$
- ☒ C. $3 \times (40 + 9)$
- D. $(3 \times 4) + (3 \times 9)$

17. Which has the same value as 57×4 ?

- ☒ A. $(50 \times 4) + (7 \times 4)$
- B. $(50 + 5) + 2$
- C. $(50 \times 5) + 2$
- D. $(50 \times 4) + 7$

18. Which expression is equal to 83×5 ?

- A. $80 \times (3 + 5)$
- ☒ B. $(80 \times 5) + (3 \times 5)$
- C. $(5 \times 80) + 3$
- D. $(80 \times 5) + ((80 \times 3))$

19. Solve the following:

$$\begin{array}{r} 2,749 \\ \times 68 \\ \hline 186,932 \end{array}$$

$$\begin{array}{r} 156 \\ \times 78 \\ \hline 12,168 \end{array}$$

$$\begin{array}{r} 837 \\ \times 46 \\ \hline 38,502 \end{array}$$

$$\begin{array}{r} 368 \\ \times 20 \\ \hline 7,360 \end{array}$$

20. What is 1486 divided by 3? Show your work.

- A. 4,812 r0
- ☒ B. 495 r1
- C. 280 r10
- D. 496 r0

21. What is 2520 divide by 10? Show your work.

- A. 25,200
- B. 2,520
- C. 253
- ☒ D. 252

22. What is the value of this expression? $420 \div 4$

- A. 15
- B. 100
- ☒ C. 105
- D. 150

23. There are 168 lunches to be shared equally among 3 fourth-grade classes. How many lunches will go to each class?

- ☒ A. 56
- B. 165
- C. 171
- D. 504

24. What is the value of this expression? $3750 \div 10$

- A. 370
- ☒ B. 375
- C. 3740
- D. 37500

25. Which division problem is correct? Show your work.

- ☒ A. $4,836 \div 6 = 86$
- ☒ B. $4,836 \div 6 = 806$
- C. $3,215 \div 5 = 641$
- D. $3,215 \div 5 = 603$

26. If $600 \div A = 300$, what is A?

- A. 200
- B. 30
- C. 20
- ☒ D. 2

27. Fill in the blank with the number that makes this math sentence correct:

$$12 \times \underline{\hspace{1cm}} = 60$$

- A. 7
- B. 4
- C. 6
- ☒ D. 5

28. What value of A makes the number sentence true?

$$100 \div A = 20$$

- A. 4
- ☒ B. 5
- C. 80
- D. 120

29. What value of n makes the equation below true?

$$n \div 7 = 21$$

- A. 3
- B. 28
- C. 141
- ☒ D. 147

30. Which value of g makes the number sentence true?

$$g \div 8 = 32$$

- A. 4
- B. 24
- C. 40
- ☒ D. 256

31. What value of p makes the equation below true?

$$270 \div p = 27$$


- A. 7
- B. 8
- C. 9
- ☒ D. 10

32. Which math problem can be checked using $3 \times 6 = 18$?

- A. $18 \times 3 =$ _____
- B. $18 + 3 =$ _____
- ☒ C. $18 \div 3 =$ _____
- D. $18 - 3 =$ _____

33. The students in your class collected pop cans to raise money for a class trip. The goal for each student was to collect 150 cans each. There are 27 students in your class. How many cans would that be altogether?

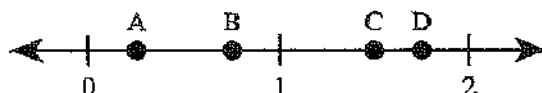
- A. 177 cans
- B. 405 cans
- C. 1350 cans
- ☒ D. 4050 cans

34. Suppose 33 photos are placed in a photo album. How many pages are needed if 3 photos fit on a page? Show your work.
- A. 9 pages
 - B. 10 pages
 - ☒ C. 11 pages
 - D. 12 pages
35. Which answer means the same as \$12.49?
- A. One and two forty nines
 - B. Twelve and forty nine
 - C. Twelve and forty nine tens
 - ☒ D. Twelve and forty nine hundredths
36. Mr. Clark was given some change at the grocery store. He was given 5 one dollar bills, 6 quarters, 2 dimes and a penny. How much change did he get?
- A. \$5.62
 - ☒ B. \$6.71
 - C. \$56.21
 - D. \$6.21
37. What decimal part of one dollar is the sum of these coins?
- 
- A. 2.00
 - ☒ B. 0.20
 - C. 0.02
 - D. 0.22
38. What is another way to write 0.7 inches?
- A. $\frac{7}{10000}$ inches
 - B. $\frac{7}{1000}$ inches
 - C. $\frac{7}{100}$ inches
 - ☒ D. $\frac{7}{10}$ inches
39. Which is equal to 0.45?
- A. $\frac{4}{5}$
 - ☒ B. $\frac{45}{100}$
 - C. $\frac{100}{45}$
 - D. $\frac{5}{100}$

40. Which number is the same as one fourth?
(think of $\frac{1}{4}$ of 100 when converting to decimals; think of money)

A. 0.4
B. 0.04
☒ C. 0.25
D. 0.75

41. Which point on the number line below *best* represents 1.75?



A. Point A
B. Point B
C. Point C
☒ D. Point D

42. Match the following: Draw a line to make a match.

1 Four tenths	2 .08
2 Eight hundredths	4 .3
3 64 hundredths	1 .4
4 3 tenths	3 .64

43. Divide $3,252 \div 7$

A. 463 R11
B. 464
☒ C. 464 R4

44. Write the following in fraction and decimal form:

Eight tenths = $\frac{8}{10}$ = .8

Twenty-seven hundredths = $\frac{27}{100}$ = .27

Five hundredths = $\frac{5}{100}$ = .05

Five tenths = $\frac{5}{10}$ = .5

45. Write the following fractions in decimal form. Remember: . tenths hundredths

$\frac{4}{10}$ = .4 $\frac{8}{10}$ = .8 $\frac{23}{100}$ = .23 $\frac{56}{100}$ = .56

$\frac{8}{100}$ = .08 $\frac{5}{10}$ = .5 $\frac{66}{100}$ = .66 $\frac{2}{10}$ = .2

46. Which number is the same as .5?

- ☒ A. One half
☐ B. 5/1
☐ C. Five hundredths
☐ D. 5/1000

47. How is eighteen hundredths written in standard form?

- ☐ A. 0.018
☒ B. 0.18
☐ C. 18.00
☐ D. 1800

48. Solve each of these without using a calculator:

$$4 \times 6 = \underline{24}$$

$$8 \times 8 = \underline{64}$$

$$6 \times 6 = \underline{36}$$

$$2 \times 9 = \underline{18}$$

$$5 \times 5 = \underline{25}$$

$$9 \times 6 = \underline{54}$$

$$8 \times 5 = \underline{40}$$

$$2 \times 2 = \underline{4}$$

$$3 \times 4 = \underline{12}$$

$$32 \div 4 = \underline{8}$$

$$7 \times 7 = \underline{49}$$

$$56 \div 7 = \underline{8}$$

$$72 \div 9 = \underline{8}$$

$$18 \div 2 = \underline{9}$$

$$3 \times 8 = \underline{24}$$

$$45 \div 9 = \underline{5}$$

$$4 \times 4 = \underline{16}$$

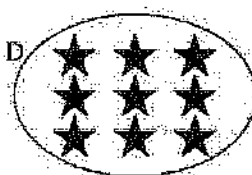
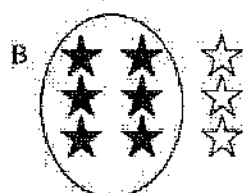
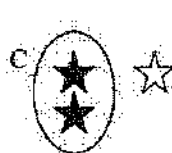
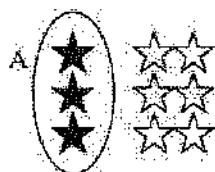
$$8 \times 7 = \underline{56}$$

$$24 \div 3 = \underline{8}$$

$$3 \times 3 = \underline{9}$$

$$3 \times 8 = \underline{24}$$

49. Choose the circled group that represents $\frac{1}{3}$.



- ☒ A. A
☐ B. B
☐ C. C
☐ D. D

50. There are 4 red cars, 5 blue cars, and 2 green cars in the parking lot. What is the fraction of Blue cars in the parking lot?

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

B. $\frac{5}{9}$

☒ C. $\frac{5}{11}$

D. $\frac{11}{5}$

51. What is the fraction for the shaded part of this set?



A. $\frac{3}{8}$

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

☒ C. $\frac{3}{7}$

52. Look at this set of objects. Which fraction stands for the part of the set that is shaded?



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

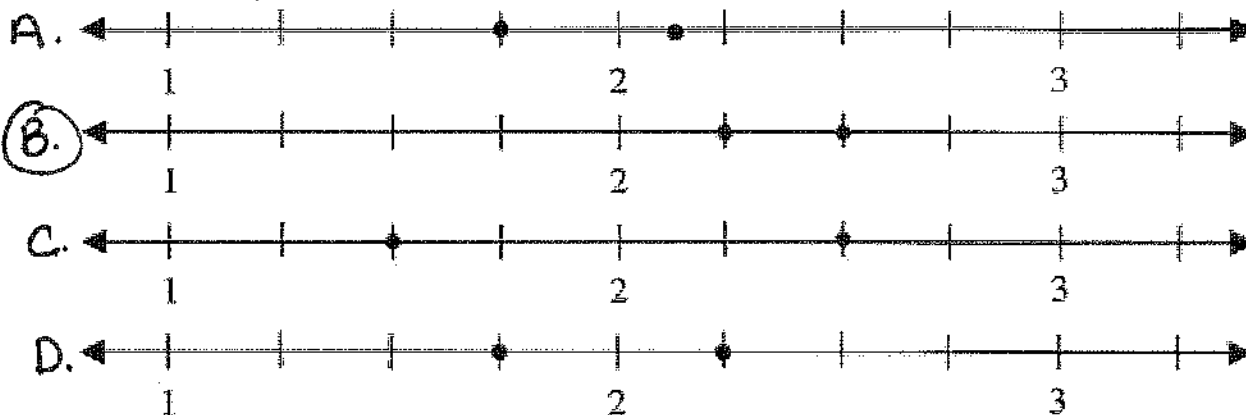
B. $\frac{5}{3}$

☒ C. $\frac{5}{8}$

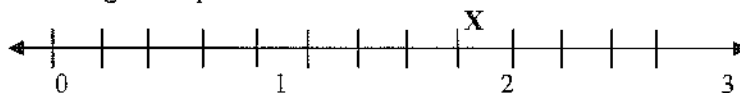
D. $\frac{3}{8}$

53. Which number line shows these two fractions?

$$\frac{5}{2} \quad 2\frac{1}{4}$$



54. Which of the following best represents the location of the X on the number line below?



- A. $1\frac{1}{4}$
 B. $1\frac{1}{2}$
☒ C. $1\frac{3}{4}$
 D. $2\frac{1}{4}$

55. How many twelfths equal $\frac{5}{6}$?

- ☒ A. $\frac{10}{12}$
 B. $\frac{11}{12}$
 C. $\frac{6}{12}$
 D. $\frac{5}{12}$

56. How many eighths equal $\frac{1}{4}$?

- A. $\frac{1}{8}$
☒ B. $\frac{2}{8}$
 C. $\frac{4}{8}$
 D. $\frac{7}{8}$

57. Which number is an improper fraction?

- A. $\frac{11}{12}$
 B. $\frac{5}{8}$
☒ C. $\frac{8}{5}$
 D. $\frac{6}{7}$

58. Convert this improper fraction into a mixed number. $11/2$ *Hint: Think of Division*

- A. $11 \frac{1}{2}$
 B. $2/11$
 C. $4 \frac{1}{2}$
 (D) $5 \frac{1}{2}$

59. Which of the following is listed from smallest to largest? Draw pictures

- A. $\frac{11}{4}, \frac{15}{6}, \frac{27}{12}$
 B. $\frac{15}{6}, \frac{8}{3}, \frac{27}{12}$
 (C) $\frac{15}{6}, \frac{27}{12}, \frac{8}{3}$
 D. $\frac{8}{3}, \frac{27}{12}, \frac{11}{4}$

60. Solve the following:

$1 \times 9 = \underline{9}$	$3 \times 6 = \underline{18}$	$9 \times 7 = \underline{63}$	$6 \times 2 = \underline{12}$
$8 \times 6 = \underline{48}$	$2 \times 2 = \underline{4}$	$3 \times 8 = \underline{24}$	$9 \times 9 = \underline{81}$
$24 \div 3 = \underline{8}$	$7 \times 7 = \underline{49}$	$56 \div 7 = \underline{8}$	$4 \times 0 = \underline{0}$
$48 \div 6 = \underline{8}$	$18 \div 6 = \underline{3}$	$7 \times 3 = \underline{21}$	$7 \times 7 = \underline{49}$

61. Which of the following is a prime number?

- A. 21
 B. 33
 C. 49
 (D) 53

62. Choose the equation that is NOT true.

- A. $\frac{1}{2} + \frac{3}{8} = \frac{7}{8}$
 B. $\frac{1}{6} + \frac{5}{12} = \frac{7}{12}$
 C. $\frac{3}{10} - \frac{23}{100} = \frac{7}{100}$
 (D) $\frac{8}{10} - \frac{3}{5} = \frac{2}{5}$

63. The distance from home to school is $\frac{7}{8}$ of a mile for Amy and $\frac{4}{8}$ of a mile ~~from~~^{for} Tom.
How much farther does Amy walk than Tom?
- A. $\frac{11}{8}$
 - B. $\frac{11}{16}$
 - C. $\frac{3}{16}$
 - ☒ D. $\frac{3}{8}$
64. Sonya needs $\frac{1}{2}$ teaspoon of salt for her recipe to make rolls. She needs $\frac{1}{4}$ teaspoon of salt for her recipe to make biscuits. How much salt will she need to make both recipes?
- A. $\frac{2}{6}$ tsp.
 - ☒ B. $\frac{3}{4}$ tsp.
 - C. $\frac{1}{8}$ tsp.
 - D. $\frac{1}{6}$ tsp.
65. Solve for the unknown in this equation: $\frac{2}{4} + n = \frac{3}{4}$ $n =$ _____
- A. $\frac{5}{4}$
 - B. $\frac{1}{2}$
 - ☒ C. $\frac{1}{4}$
 - D. $\frac{5}{8}$
66. How much is $1.35 \div 5$? Do not use a calculator!
- ☒ A. .27
 - B. .35
 - C. .5
 - D. 1.7
67. How much is $1.14 \div 2$? Do not use a calculator. (Line up and move decimal straight up into answer)
- A. .7
 - B. .52
 - ☒ C. .57
 - D. 1.7
68. Which of the following is closest to the sum of 811 and 356? No calculator ☺.
- A. 1400
 - B. 1300
 - ☒ C. 1200
 - D. 1100
69. Which of the following is closest to the product of 81 and 82? Do not use a calculator.
- ☒ A. 6400
 - B. 7200
 - C. 720
 - D. 64,000

70. One hundred fourth graders at Beacon Tree Elementary are attending a field day. The teachers need to know how many hot dogs to buy. All the following are reasonable approximations EXCEPT.

- A. 100 hot dogs
- B. 150 hot dogs
- C. 200 hot dogs
- ☒ D. 50 hot dogs

71. A cat sleeps an average of 17 hours each day. About how many hours does a cat sleep in a month?

- A. 300 hours
- ☒ B. 600 hours
- C. 170 hours
- D. 6000 hours

72. Find the difference: Remember "bottom bigger better borrow" and you can only borrow from next door. You can always check your answers by adding your answer and the second number and this should equal your top number.

$$\begin{array}{r} 701 \\ - 35 \\ \hline 666 \end{array}$$

$$\begin{array}{r} 68 \\ - 27 \\ \hline 41 \end{array}$$

$$\begin{array}{r} 100 \\ - 37 \\ \hline 63 \end{array}$$

$$\begin{array}{r} 63 \\ - 47 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 35 \\ - 15 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 114 \\ - 37 \\ \hline 77 \end{array}$$

$$\begin{array}{r} 66 \\ - 24 \\ \hline 42 \end{array}$$

73. Find the product:

$$\begin{array}{r} 36 \\ \times 47 \\ \hline 1,692 \end{array}$$

$$\begin{array}{r} 47 \\ \times 68 \\ \hline 3,196 \end{array}$$

$$\begin{array}{r} 59 \\ \times 39 \\ \hline 2,301 \end{array}$$

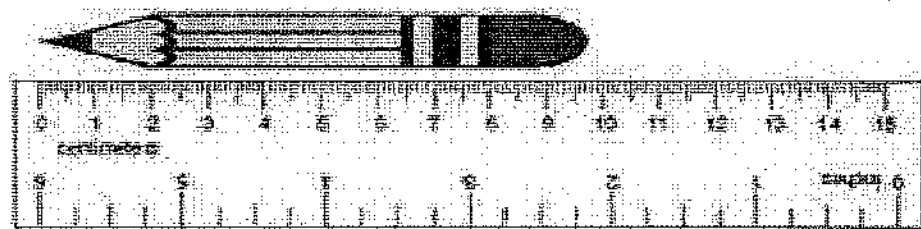
$$\begin{array}{r} 28 \\ \times 18 \\ \hline 504 \end{array}$$

$$\begin{array}{r} 19 \\ \times 47 \\ \hline 893 \end{array}$$

$$\begin{array}{r} 56 \\ \times 36 \\ \hline 2,016 \end{array}$$

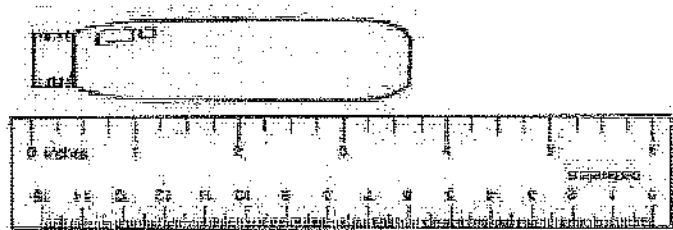
$$\begin{array}{r} 78 \\ \times 37 \\ \hline 2,886 \end{array}$$

74. This pencil is about how many centimeters long?

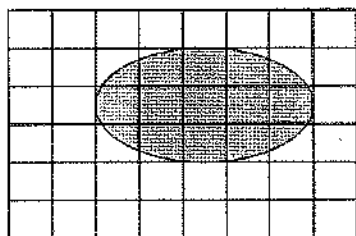


- A. 9 cm
- ☒ B. 10 cm
- C. 11 cm
- D. 12 cm

75. What is the length of this light bulb to the nearest inch?

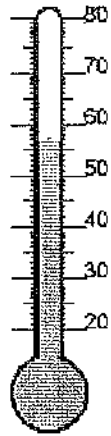


- A. 2 in.
 B. 3 in.
☒ C. 4 in.
 D. 5 in.
76. What is the best estimate of the area, in square centimeters, of the SHADED FIGURE on the grid below? One square equals one square centimeter.

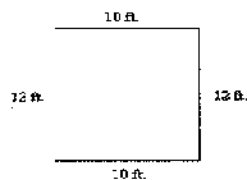


- A. 5 square centimeters
☒ B. 11 square centimeters
 C. 13 square centimeters
 D. 15 square centimeters
77. Which is most likely the length of a telephone book?
- A. 30 kilometers
☒ B. 30 centimeters
 C. 30 millimeters
 D. 30 meters
78. Brent is making a sail for a toy boat. The sail needs to be 3.55 cm wide. Which measure would be MOST useful in making the sail?
- ☒ A. To the nearest millimeter
 B. To the nearest decimeter
 C. To the nearest meter
 D. To the nearest kilometer

79. What temperature is shown on this thermometer, to the nearest degree?



- A. 50 degrees C
☒ B. 55 degrees C
 C. 57 degrees C
 D. 60 degrees C
80. Bobbie was writing an article for the school newspaper about the amount of homework the 4th grade teachers were assigning. He was surprised to find out that the average student only spent 20 minutes per night doing homework. To make it sound longer, he decided to convert the time from minutes to seconds in the article. How many seconds did the average student spend on homework?
- A. 80 seconds
 B. 120 seconds
 C. 800 seconds
☒ D. 1,200 seconds
81. Sheryl planned to buy a wall paper border for her bedroom. She measured the lengths of the walls and found the perimeter of her room. Use the picture below to determine the perimeter.

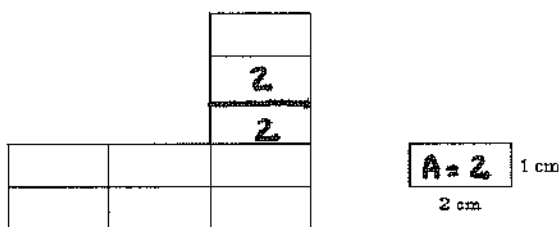


- A. 22 ft.
 B. 34 ft.
☒ C. 44 ft.
 D. 120 ft.

82. Sheryl may want to buy new carpeting for her room. She needs the square footage of the room to take to the store to price how much carpeting would be. What is the area of her room in the picture above? *use picture from #81*

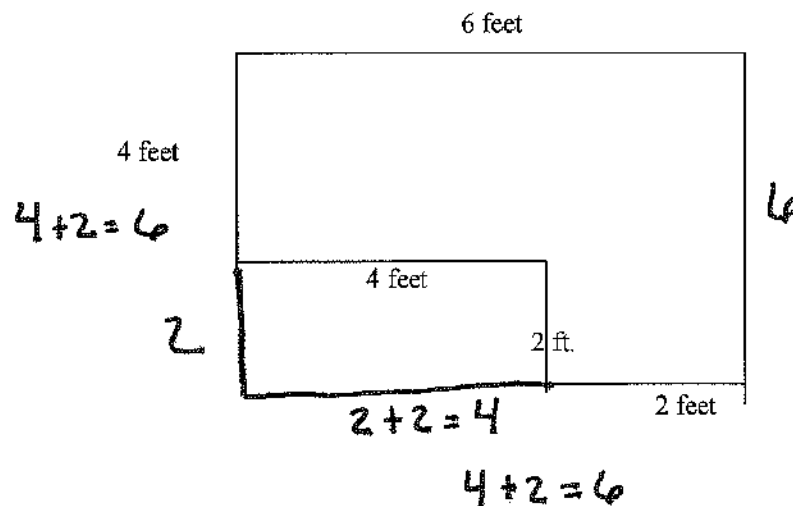
- A. 22 square feet
☒ B. 120 square feet
 C. 100 square feet
 D. 144 square feet

83. Using the formula for finding the area, what is the area of the figure below?



- ☒ A. 18 sq. cm.
 B. 22 sq. cm.
 C. 32 sq. cm.
 D. 54 sq. cm.

84. Find the perimeter of the figure below?

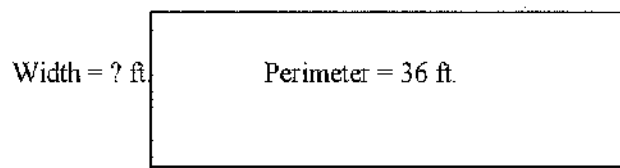


- A. 12 feet
 B. 18 feet
☒ C. 24 feet
 D. 36 feet

85. What is the area of the figure above? *use picture from # 84*

- A. 12 square feet
- B. 28 square feet
- C. 24 square feet
- ☒ D. 36 square feet

86. Sharon had a rectangular garden with a perimeter of 36 feet. The fence surrounding it was falling down on one of the short sides (width). If the length of the garden was 10 feet, how many feet of fence did she need to replace the broken portion (width) of the fence?



Length = 10 ft.

- A. 6 feet
 - ☒ B. 8 feet
 - C. 10 feet
 - D. 26 feet
87. What is the area of the rectangle garden on the previous page (#86)?

- A. 6 square feet
- B. 18 square feet
- ☒ C. 80 square feet
- D. 100 square feet

88. If the perimeter of a square is 48 cm, what is the length of each side? (Draw a picture and think of the key word of what type of shape it is.)

- A. 8 cm
- B. 10 cm
- ☒ C. 12 cm
- D. 24 cm

89. What is the width of a rectangle that has a length of 6 feet and an area of 60 square feet? Draw a picture.

- ☒ A. 10 feet
- B. 12 feet
- C. 24 feet
- D. 66 feet

90. What is the width of a rectangle with a length of 5 inches and a perimeter of 16 inches?

Draw a picture.

- A. 2 inches
- ☒ B. 3 inches
- C. 8 inches
- D. 21 inches

91. Sarah opens her book. What is the angle formed by the open book?

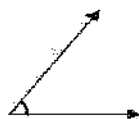


- A. less than a right angle (acute)
- B. equal to a right angle
- ☒ C. greater than a right angle (obtuse)
- D. cannot tell without a picture of a right angle

92. Which of the following is closest to 8×0.92 ?

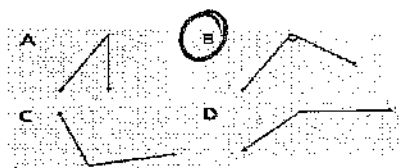
- A. 800
- B. 80
- ☒ C. 8

93. What is the size of this angle?



- ☒ A. acute
- B. equal to a right angle
- C. obtuse
- D. cannot tell without a picture of a right angle

94. Which angle is a right angle?

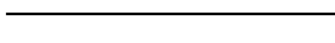


95. These lines are



- A. parallel
- ☒ B. perpendicular
- C. not intersecting

96. These lines are



- ☒ A. parallel
- B. perpendicular
- C. intersecting

97. Find the difference. Remember bottom bigger better borrow.

$$\begin{array}{r} 307 \\ - 147 \\ \hline 160 \end{array}$$

$$\begin{array}{r} 821 \\ - 424 \\ \hline 397 \end{array}$$

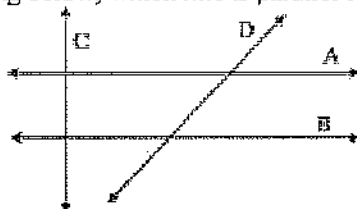
$$\begin{array}{r} 600 \\ - 323 \\ \hline 277 \end{array}$$

$$\begin{array}{r} 501 \\ - 247 \\ \hline 254 \end{array}$$

$$\begin{array}{r} 427 \\ - 247 \\ \hline 180 \end{array}$$

$$\begin{array}{r} 800 \\ - 248 \\ \hline 552 \end{array}$$

98. In the drawing below, which line is parallel to line A?



- A. none of them
- ☒ B. B
- C. C
- D. D

In the drawing above, which line is perpendicular to A?

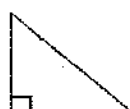
- A. none of them
- B. B
- ☒ C. C
- D. D

99. Which type of triangle has only 2 equal sides, like the drawing below?



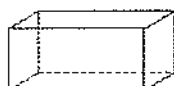
- ☒ A. equilateral triangle
- B. isosceles triangle
- C. pyramid
- D. right triangle

100. Which geometric figure is shown here?



- A. equilateral triangle
- B. isosceles triangle
- C. pyramid
- ☒ D. right triangle

101. Answer the following questions on the figure below.



How many vertices does the box above have?

- A. 3 vertices
- ☒ B. 8 vertices
- C. 10 vertices
- D. 18 vertices

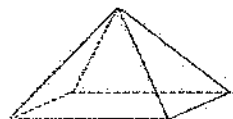
How many faces does the box above have?

- ☒ A. 6 faces
- B. 8 faces
- C. 10 faces
- D. 18 faces

How many edges does the box above have?

- A. 3 edges
- B. 9 edges
- ☒ C. 12 edges
- D. 18 edges

102. Answer the following questions using the figure below.



How many faces does this figure have?

- A. 2 faces
- B. 3 faces
- C. 4 faces
- ☒ D. 5 faces

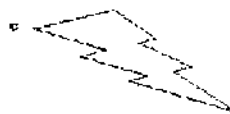
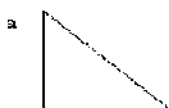
How many vertices does the figure in #102 have?

- A. 2 faces
- B. 3 faces
- C. 4 faces
- ☒ D. 5 faces

How many edges does the figure #102 have?

- A. 3 edges
- B. 4 edges
- C. 5 edges
- ☒ D. 8 edges

103. Which of these shapes can be folded in half so that both halves are the same (line symmetry)? Show this by drawing the line of symmetry on the figure, then choose the correct answer.



104. Which transformation has taken place to figure A to create figure B?



Figure A



Figure B

- A. Tessellation
- B. Copy
- ☒ C. Flip
- D. Slide

105. Sharon had a bag of 12 marbles. She gave 8 of the marbles to Don. Which fractional part of the marbles did Sharon have left?

A. $\frac{8}{12}$
 B. $\frac{4}{8}$
☒ C. $\frac{4}{12}$
 D. $\frac{1}{4}$

106. Laura wrote 200 words on the first page of her journal. After the second page, she had 400 words. If the pattern continues, how many pages will it take her to write 1000 words? Continue to fill in the table to find the answer.

Page Number	Words	Total words
1	200	200
2	200	400
3		
4		
5		
6		
7		

A. 3
 B. 4
☒ C. 5
 D. 6

107. Answer the following questions using this set of data. { 2, 2, 3, 5, 10, 10, 10 }

What is the median?

A. 5
☒ B. 6
 C. 7
 D. 8

What is the mode?

A. 2
 B. 5
 C. 8
☒ D. 10

What is the range?

A. 5
 B. 6
☒ C. 8
 D. 10

108. What is the length of a rectangle with a width of 4 centimeters and a perimeter of 28 centimeters?

- A. 7 centimeters
- ☒ B. 10 centimeters
- C. 20 centimeters
- D. 24 centimeters

109. Answer the following questions using this set of data.

8 11 18 11 20 9

What is the median?

- A. 8
- B. 9
- ☒ C. 11
- D. 20

What is the range?

- A. 8
- ☒ B. 12
- C. 18
- D. 20

What is the mode?

- A. 8
- B. 9
- ☒ C. 11
- D. 15

110. In which set is the median the same as the range?

- A. 3, 4, 6, 8, 3, 4
- ☒ B. 2, 4, 5, 6, 4
- C. 1, 5, 6, 10, 4
- D. 7, 8, 3, 6, 1

111. Divide $875 \div 5$. Show your work!

~~875~~ 175

112. Multiply 46 by 78. Show your work!

~~46~~ 3,588

113. How do you write 45 hundredths as a fraction and decimal?

45/100 fraction
.45 decimal

114. The chart below shows the number of minutes that Katie spent on her computer each day for one week.

Katie's Computer Time

Day	Number of Minutes
Sunday	59
Monday	65
Tuesday	42
Wednesday	84
Thursday	64
Friday	37
Saturday	46

What number represents the median of the data in the chart?

- A. 47
 B. 53
☒ C. 59
 D. 37

What is the range of the data in the chart?

- A. 37
☒ B. 47
 C. 88
 D. 92

115. What is the median for this set of numbers?

2 8 4 4 15 7 14

- A. 4
☒ B. 7
 C. 8
 D. 13

116. Find the range of: 4, 12, 13, 6, 5, 8

- A. 4
B. 8
☒ C. 9
D. 13

117. Find the median of: 9, 4, 3, 7, 2, 8, 4

- ☒ A. 4
B. 5
C. 6
D. 7

118. Find the sum or difference: Watch the signs.

$$\begin{array}{r} 135 \\ +479 \\ \hline 614 \end{array}$$

$$\begin{array}{r} 546 \\ +137 \\ \hline 683 \end{array}$$

$$\begin{array}{r} 71 \\ -18 \\ \hline 53 \end{array}$$

$$\begin{array}{r} 50 \\ -26 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 304 \\ +235 \\ \hline 539 \end{array}$$

$$\begin{array}{r} 63 \\ -42 \\ \hline 21 \end{array}$$

$$\begin{array}{r} 426 \\ -135 \\ \hline 291 \end{array}$$

$$\begin{array}{r} 17 \\ +18 \\ \hline 35 \end{array}$$

$$\begin{array}{r} 54 \\ -39 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 135 \\ -53 \\ \hline 82 \end{array}$$

$$\begin{array}{r} 3.2 \\ +2.8 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 8.8 \\ +1.3 \\ \hline 10.1 \end{array}$$

$$\begin{array}{r} 8.1 \\ -5.7 \\ \hline 2.4 \end{array}$$

$$\begin{array}{r} 4.8 \\ -2.6 \\ \hline 2.2 \end{array}$$

$$\begin{array}{r} 400 \\ -37 \\ \hline 363 \end{array}$$

$$\begin{array}{r} 621 \\ -57 \\ \hline 564 \end{array}$$

$$\begin{array}{r} 842 \\ -51 \\ \hline 791 \end{array}$$

$$\begin{array}{r} 699 \\ +23 \\ \hline 722 \end{array}$$

$$\begin{array}{r} 85 \\ +57 \\ \hline 142 \end{array}$$

$$\begin{array}{r} 286 \\ -44 \\ \hline 242 \end{array}$$

$$\begin{array}{r} 73 \\ +45 \\ \hline 118 \end{array}$$

119. What is the range of the data set below?

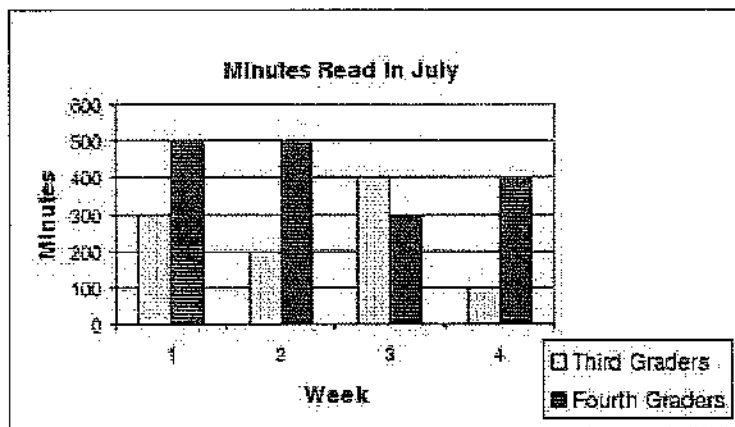
2, 1, 7, 3, 5, 2, 9, 7, 10, 4, 2, 10

- A. 2
B. 8
☒ C. 9
D. 10

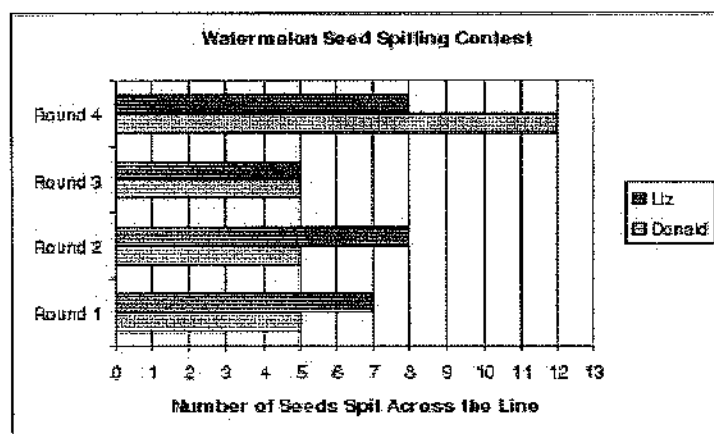
120. Which shows the fractions in order from least to greatest?

- ☒ A. $\frac{1}{4}$, $\frac{1}{3}$, $\frac{1}{2}$
B. $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$
C. $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{2}$

121. During July, the third and fourth graders kept track of the number of minutes they read each week. Use this graph to figure out how many minutes total the third graders read in July.

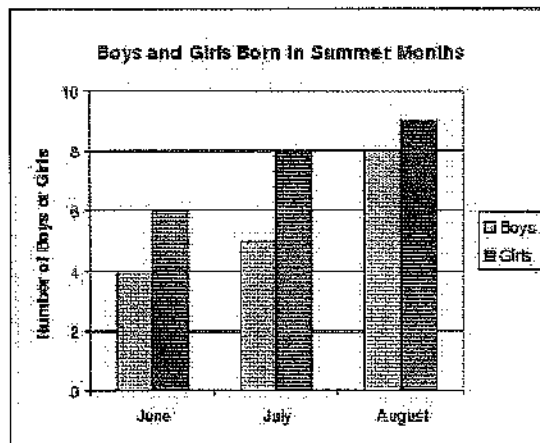


- A. 250
 B. 400
 C. 1000
 D. 2700
122. How many more total seeds did Liz spit across the line than Donald, in all 4 rounds?



- A. 1
 B. 4
 C. 5
 D. 7

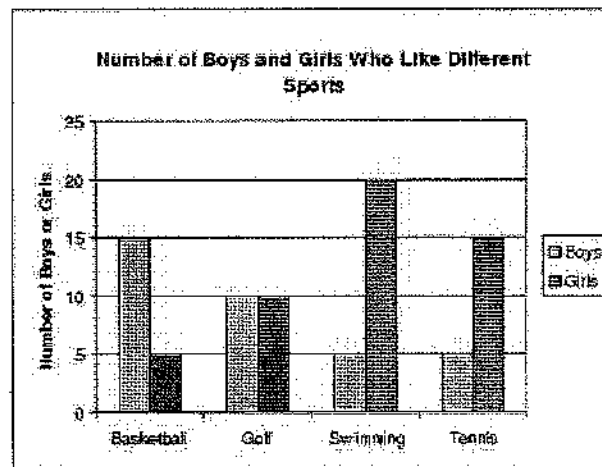
123. How many more girls were born in June through August than boys?



A.

- A. 5
- ☒ B. 6
- C. 7
- D. They are the same

124. How many more boys like baseball than girls?



- A. 5
- B. 10
- ☒ C. 15
- D. 20

125. Do the following divisions. Then check your answer. Show your work. No calculators!

Check your work:

A. $1524 \div 6 = \underline{254}$

$$\begin{array}{r} \times 6 \\ 1524 \end{array}$$

B. $380 \div 10 = \underline{38}$

$$\begin{array}{r} \times 10 \\ 380 \end{array}$$

C. $4235 \div 10 = \underline{423 \text{ r} 5}$

$$\times \underline{\hspace{2cm}}$$

D. $4 \overline{) 769} \underline{192 \text{ r} 1}$

$$\times \underline{\hspace{2cm}}$$

E. $5 \overline{) 765} \underline{153}$

$$\times \underline{\hspace{2cm}}$$

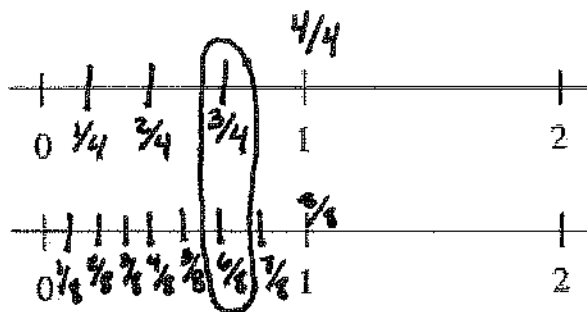
126. Shade $\frac{3}{5}$ of the boxes below:



127. Place these two fractions on the two number lines below to show why they are equivalent.

$$\frac{6}{8} = \frac{3}{4}$$

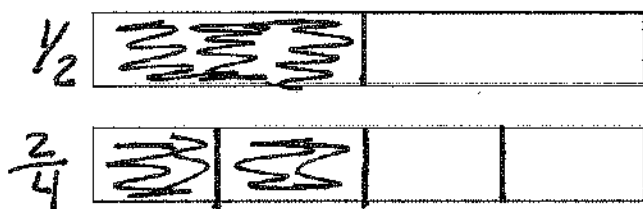
$$\frac{6}{8} \div 2 = \frac{3}{4}$$



128. Show how these two fractions are equal by shading some of each rectangle.

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

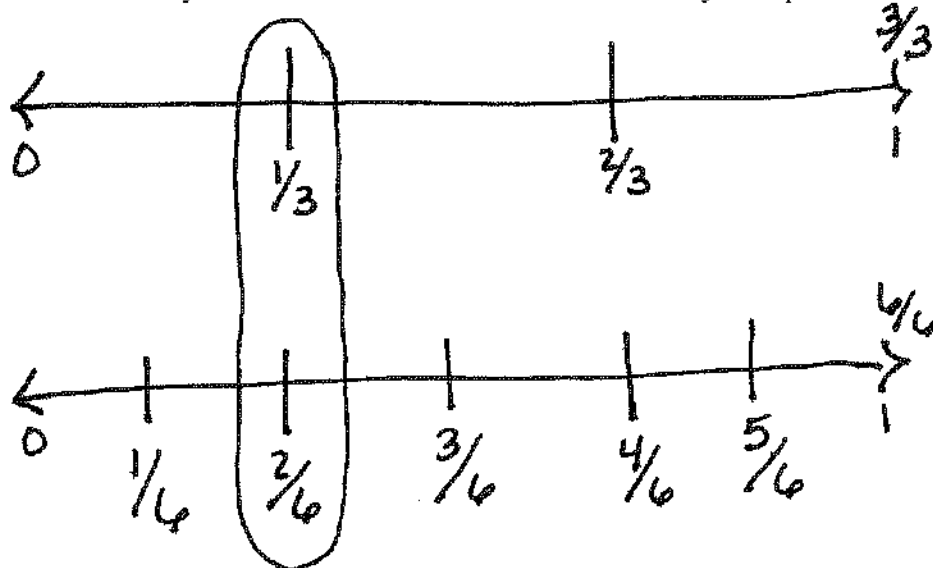
$$\frac{1}{2} \times 2 = \frac{2}{4}$$



129. Explain how these two fractions are equal.

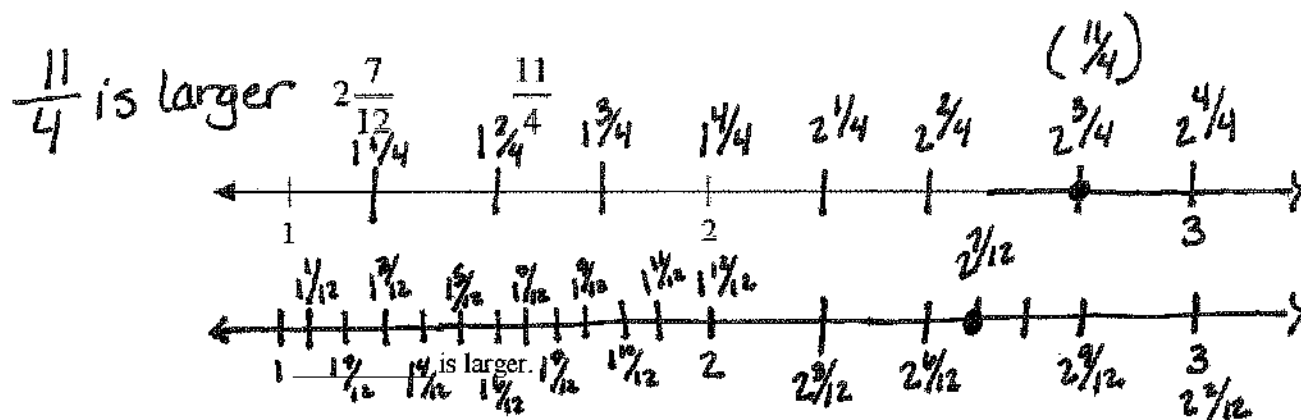
$$\frac{1}{3} \quad \frac{2}{6}$$

You may use fraction bars or number lines to illustrate your explanation.

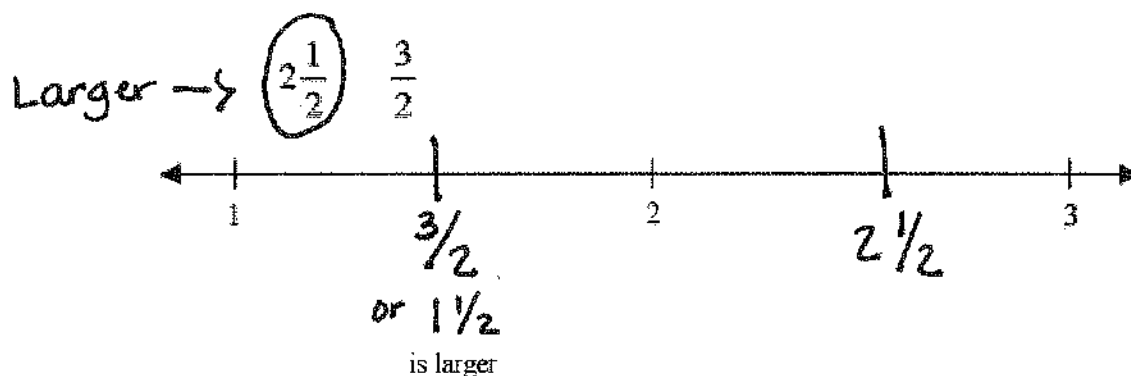


$$\frac{1}{3} \times 2 = \frac{2}{6}$$

130. Locate these two fractions on the number line, label each, and then explain which is larger.

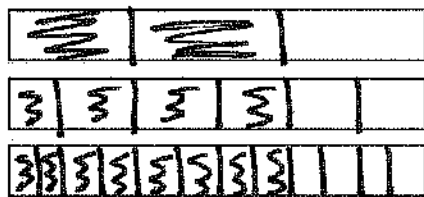


131. Locate and label these two fractions on the number line. Then tell which is larger.



132. On the strips below, shade and label the following fractions.

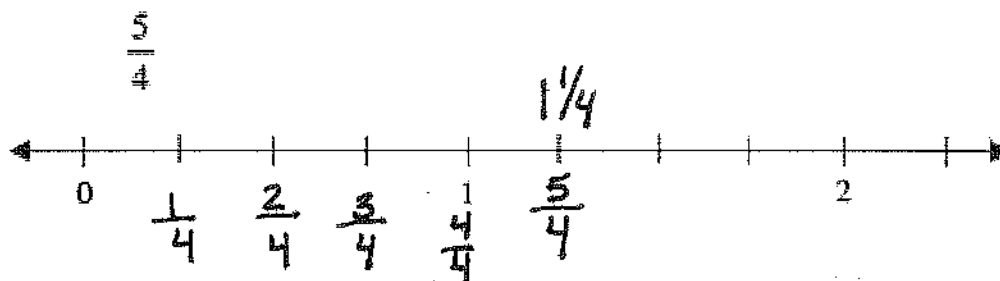
$$\frac{2}{3} \quad \frac{4}{6} \quad \frac{8}{12}$$



Largest fraction $\frac{2}{3}$
 Mid size fraction $\frac{4}{6}$
 Smallest fraction $\frac{8}{12}$

Order by fraction pieces size.
 All three fractions
 are equivalent.

133. Locate and label this fraction on the number line. Then write it as a mixed number:



134. Write this fraction as a mixed number. Then create a picture that represents it as a mixed number:

$$\frac{13}{3} = 4\frac{1}{3}$$

135. Identify the shaded portion of this picture as a mixed number and an improper fraction.



- fractions in order from least to greatest: Draw a picture

$$\frac{11}{3} \quad \frac{1}{6} \quad 1\frac{2}{3}$$

$$\underline{\frac{1}{6}} \quad \underline{1\frac{2}{3}} \quad \underline{\frac{11}{3}}$$

136. Write the following

137. Write the following fractions in order from greatest to least.

$$1\frac{1}{4} \quad \frac{3}{4} \quad \frac{9}{4}$$

$$\underline{\frac{9}{4}} \quad \underline{1\frac{1}{4}} \quad \underline{\frac{3}{4}}$$

138. Solve the following problems:

$$\frac{3}{4} + \frac{2}{4} = \frac{5}{4} = 1\frac{1}{4}$$

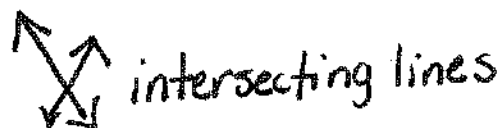
$$\frac{3}{4} - \frac{2}{4} = \frac{1}{4}$$

$$\frac{8}{12} - \frac{1}{4} = \frac{5}{12}$$

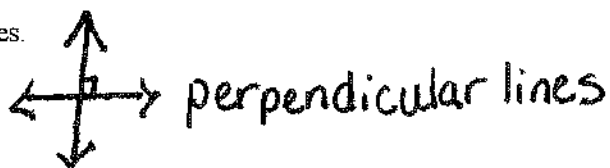
$$\frac{8}{12} + \frac{1}{4} = \frac{11}{12}$$

139. Using a ruler and a tool or object with a 90 degree corner, draw and label all of the following:

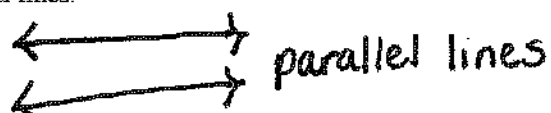
A pair of intersecting lines that is not perpendicular.



A pair of perpendicular lines.



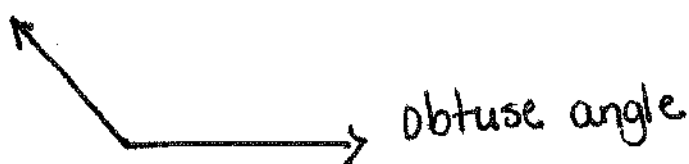
A pair of parallel lines.



Draw a right angle.



Draw an obtuse angle.



140. Find the products.

Any multiplication problem you do not know quickly please practice on flash cards.

6	4	7	5	12	3	6	3	0	7	5	6	3	8
$\times 2$	$\times 4$	$\times 2$	$\times 4$	$\times 0$	$\times 5$	$\times 3$	$\times 8$	$\times 8$	$\times 3$	$\times 5$	$\times 4$	$\times 9$	$\times 3$
12	16	14	20	0	15	18	24	0	21	25	24	27	24

6	2	3	8	7	12	8	3	11	7	9	4	4	9
$\times 5$	$\times 12$	$\times 6$	$\times 2$	$\times 5$	$\times 1$	$\times 4$	$\times 7$	$\times 4$	$\times 6$	$\times 2$	$\times 8$	$\times 6$	$\times 3$
30	24	18	16	35	12	32	21	44	42	18	32	24	27

4	5	0	5	9	5	2	9	5	11	5	9	7	7
$\times 7$	$\times 0$	$\times 3$	$\times 8$	$\times 4$	$\times 7$	$\times 1$	$\times 5$	$\times 6$	$\times 5$	$\times 9$	$\times 8$	$\times 7$	$\times 9$
28	0	0	40	36	35	2	45	30	55	45	72	49	63

8	6	8	1	9	9	8	1	9	2	1	3	12	1
$\times 8$	$\times 6$	$\times 7$	$\times 2$	$\times 6$	$\times 9$	$\times 6$	$\times 9$	$\times 1$	$\times 5$	$\times 1$	$\times 4$	$\times 3$	$\times 3$
64	36	56	2	54	81	48	9	9	10	1	12	36	3

8	8	12	8	12	5	3	4	2	7	6	2	6	12
$\times 0$	$\times 1$	$\times 4$	$\times 9$	$\times 0$	$\times 1$	$\times 2$	$\times 0$	$\times 2$	$\times 1$	$\times 8$	$\times 6$	$\times 7$	$\times 5$
0	8	48	72	0	5	6	0	4	7	48	12	42	60

8	4	2	9	12	11	2	7	0	6	1	5	3	2
$\times 5$	$\times 1$	$\times 8$	$\times 7$	$\times 8$	$\times 6$	$\times 9$	$\times 4$	$\times 2$	$\times 9$	$\times 0$	$\times 2$	$\times 3$	$\times 4$
40	4	16	63	96	66	18	28	0	54	0	10	9	8

4	12	4	4	1	2	11	6	7	5	2	1	4	11
$\times 9$	$\times 6$	$\times 2$	$\times 3$	$\times 4$	$\times 3$	$\times 7$	$\times 1$	$\times 8$	$\times 3$	$\times 7$	$\times 8$	$\times 5$	$\times 4$
36	72	8	12	4	6	77	6	56	15	14	8	20	44

141. Find the quotients.

$$\begin{array}{r} 1 \\ 2 \overline{)2} \end{array} \quad \begin{array}{r} 3 \\ 3 \overline{)9} \end{array} \quad \begin{array}{r} 4 \\ 8 \overline{)32} \end{array} \quad \begin{array}{r} 7 \\ 7 \overline{)49} \end{array} \quad \begin{array}{r} 2 \\ 5 \overline{)10} \end{array} \quad \begin{array}{r} 0 \\ 4 \overline{)0} \end{array} \quad \begin{array}{r} 1 \\ 1 \overline{)1} \end{array} \quad \begin{array}{r} 2 \\ 4 \overline{)8} \end{array} \quad \begin{array}{r} 6 \\ 2 \overline{)12} \end{array} \quad \begin{array}{r} 6 \\ 9 \overline{)54} \end{array} \quad \begin{array}{r} 3 \\ 1 \overline{)3} \end{array} \quad \begin{array}{r} 2 \\ 1 \overline{)2} \end{array} \quad \begin{array}{r} 2 \\ 2 \overline{)4} \end{array}$$

$$\begin{array}{r} 1 \\ 8 \overline{)8} \end{array} \quad \begin{array}{r} 9 \\ 7 \overline{)63} \end{array} \quad \begin{array}{r} 5 \\ 8 \overline{)40} \end{array} \quad \begin{array}{r} 0 \\ 5 \overline{)0} \end{array} \quad \begin{array}{r} 1 \\ 4 \overline{)4} \end{array} \quad \begin{array}{r} 3 \\ 4 \overline{)12} \end{array} \quad \begin{array}{r} 5 \\ 9 \overline{)45} \end{array} \quad \begin{array}{r} 7 \\ 9 \overline{)63} \end{array} \quad \begin{array}{r} 1 \\ 6 \overline{)6} \end{array} \quad \begin{array}{r} 4 \\ 3 \overline{)12} \end{array} \quad \begin{array}{r} 7 \\ 1 \overline{)7} \end{array} \quad \begin{array}{r} 0 \\ 3 \overline{)0} \end{array} \quad \begin{array}{r} 9 \\ 1 \overline{)9} \end{array}$$

$$\begin{array}{r} 8 \\ 2 \overline{)16} \end{array} \quad \begin{array}{r} 1 \\ 3 \overline{)3} \end{array} \quad \begin{array}{r} 5 \\ 3 \overline{)15} \end{array} \quad \begin{array}{r} 4 \\ 5 \overline{)20} \end{array} \quad \begin{array}{r} 6 \\ 3 \overline{)18} \end{array} \quad \begin{array}{r} 2 \\ 3 \overline{)6} \end{array} \quad \begin{array}{r} 3 \\ 5 \overline{)15} \end{array} \quad \begin{array}{r} 0 \\ 7 \overline{)0} \end{array} \quad \begin{array}{r} 3 \\ 9 \overline{)27} \end{array} \quad \begin{array}{r} 4 \\ 4 \overline{)16} \end{array} \quad \begin{array}{r} 3 \\ 7 \overline{)21} \end{array} \quad \begin{array}{r} 5 \\ 4 \overline{)20} \end{array} \quad \begin{array}{r} 4 \\ 7 \overline{)28} \end{array}$$

$$\begin{array}{r} 2 \\ 8 \overline{)16} \end{array} \quad \begin{array}{r} 7 \\ 3 \overline{)21} \end{array} \quad \begin{array}{r} 2 \\ 9 \overline{)18} \end{array} \quad \begin{array}{r} 6 \\ 4 \overline{)24} \end{array} \quad \begin{array}{r} 3 \\ 2 \overline{)6} \end{array} \quad \begin{array}{r} 8 \\ 1 \overline{)8} \end{array} \quad \begin{array}{r} 7 \\ 5 \overline{)35} \end{array} \quad \begin{array}{r} 5 \\ 7 \overline{)35} \end{array} \quad \begin{array}{r} 9 \\ 3 \overline{)27} \end{array} \quad \begin{array}{r} 6 \\ 6 \overline{)36} \end{array} \quad \begin{array}{r} 8 \\ 3 \overline{)24} \end{array} \quad \begin{array}{r} 0 \\ 2 \overline{)0} \end{array} \quad \begin{array}{r} 8 \\ 4 \overline{)32} \end{array}$$

$$\begin{array}{r} 1 \\ 9 \overline{)9} \end{array} \quad \begin{array}{r} 9 \\ 4 \overline{)36} \end{array} \quad \begin{array}{r} 7 \\ 6 \overline{)42} \end{array} \quad \begin{array}{r} 8 \\ 5 \overline{)40} \end{array} \quad \begin{array}{r} 8 \\ 8 \overline{)64} \end{array} \quad \begin{array}{r} 2 \\ 7 \overline{)14} \end{array} \quad \begin{array}{r} 5 \\ 6 \overline{)30} \end{array} \quad \begin{array}{r} 7 \\ 8 \overline{)56} \end{array} \quad \begin{array}{r} 5 \\ 1 \overline{)5} \end{array} \quad \begin{array}{r} 7 \\ 4 \overline{)28} \end{array} \quad \begin{array}{r} 8 \\ 7 \overline{)56} \end{array} \quad \begin{array}{r} 3 \\ 8 \overline{)24} \end{array} \quad \begin{array}{r} 4 \\ 6 \overline{)24} \end{array}$$

$$81 \div 9 = \underline{9} \quad 48 \div 6 = \underline{8} \quad 18 \div 6 = \underline{3} \quad 42 \div 7 = \underline{6}$$

$$10 \div 2 = \underline{5} \quad 54 \div 6 = \underline{9} \quad 36 \div 9 = \underline{4} \quad 45 \div 5 = \underline{9}$$

$$72 \div 8 = \underline{9} \quad 8 \div 2 = \underline{4} \quad 72 \div 9 = \underline{8} \quad 6 \div 1 = \underline{6}$$

$$25 \div 5 = \underline{5} \quad 5 \div 5 = \underline{1} \quad 18 \div 2 = \underline{9} \quad 30 \div 5 = \underline{6}$$

CONGRATULATIONS!!! You have completed the summer math packet. You are now ready for 5th grade success!