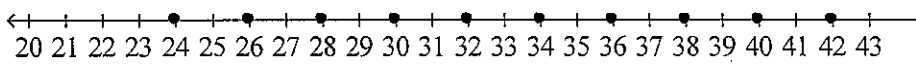
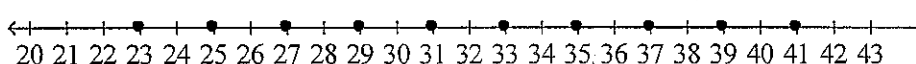
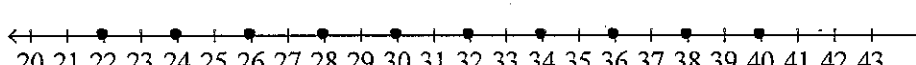


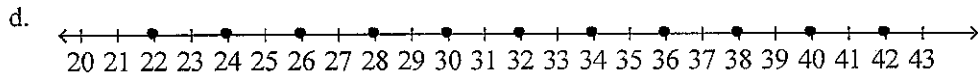
Incoming 6th Grade Summer Assignment

- The purpose of this assignment is to help you practice the skills that will be necessary for your success in the 6th grade, and should reflect the work you have done during elementary school.
- You should be able to do all of the work without a calculator.
- You will be given a TEST at the beginning of the school year that reflects these practice problems.
- It is your responsibility to see your teacher for help if you need clarification of a skill prior to the test.

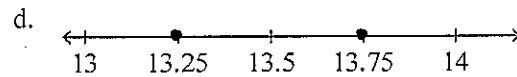
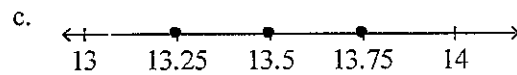
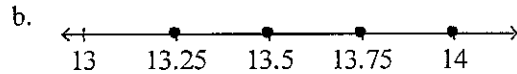
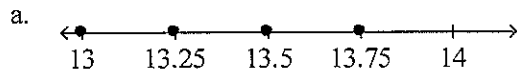
Multiple Choice

Identify the choice that best completes the statement or answers the question.

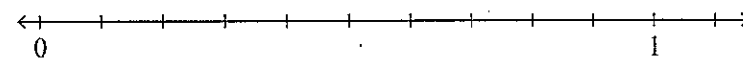
- _____ 1. Find the factors of the number.
27
a. 1, 27
b. 3, 9
c. 1, 3, 9, 27
d. 3, 9, 27
- _____ 2. Find the first five multiples of the number.
6
a. 6, 12, 18, 24, 30
b. 6, 12, 18, 30, 36
c. 12, 18, 24, 30, 36
d. 6, 12, 18, 22, 30
- _____ 3. Find the first five multiples of the number.
9
a. 18, 27, 36, 45, 54
b. 9, 18, 27, 36, 45
c. 9, 18, 27, 45, 54
d. 9, 18, 24, 36, 45
- _____ 4. Identify all of the prime numbers in the set of numbers.
4, 7, 15, 19, 24, 27
a. 7, 15, 19, 27
b. 7, 19
c. 7, 19, 27
d. 7
- _____ 5. Use the order of operations to simplify the expression.
 $(6 + 18) \div 3 \times 2$
a. 4
b. 16
c. 18
d. 24
- _____ 6. Draw a horizontal number line to represent the set of even numbers from 22 to 42.
a. 
b. 
c. 



7. Draw a horizontal number line to represent the set of decimals between 13 and 14 with an interval of 0.25 between each pair of decimals.



8. Which of the following statements is true? Use the number to help you.



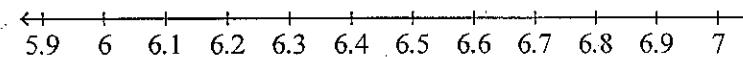
a. $\frac{1}{3} > \frac{3}{5}$

c. $\frac{3}{4} > \frac{5}{6}$

b. $\frac{1}{8} < \frac{2}{3}$

d. $\frac{5}{8} < \frac{2}{7}$

9. Which of the following statements is true? Use the number to help you.



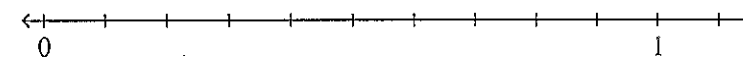
a. $6.09 > 6.90$

c. $6.77 > 6.23$

b. $6.11 < 6.04$

d. $6.64 > 6.82$

10. Which of the following statements is true? Use the number to help you.



a. $\frac{1}{3} > 0.55$

c. $\frac{3}{5} < 0.82$

b. $\frac{2}{5} < 0.15$

d. $\frac{3}{8} > 0.22$

11. Add $7.21 + 2.6$.

a. 7.27

c. 9.27

b. 7.81

d. 9.81

12. Subtract $6.4 - 3.82$.

a. 2.22

c. 3.42

b. 2.58

d. 3.58

_____ 13. Write the improper fraction as a mixed number in simplest form.

$$\frac{39}{8}$$

a. $4\frac{1}{8}$

c. $4\frac{7}{8}$

b. $4\frac{6}{8}$

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

_____ 14. Write the mixed number as an improper fraction.

$$4\frac{5}{7}$$

a. $\frac{16}{7}$

c. $\frac{33}{7}$

b. $\frac{28}{7}$

d. $\frac{55}{7}$

_____ 15. Find the product in simplest form.

$$\frac{5}{6} \times \frac{7}{8}$$

a. $\frac{35}{48}$

c. $\frac{1}{4}$

b. $\frac{12}{14}$

d. $\frac{12}{48}$

_____ 16. Which fraction is **not** equivalent to $\frac{24}{36}$ using division?

a. $\frac{12}{18}$

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

b. $\frac{4}{6}$

d. $\frac{20}{32}$

_____ 17. Which value completes the pair of equivalent fractions?

$$\frac{14}{15} = \frac{?}{90}$$

a. 84

c. 112

b. 98

d. 126

_____ 18. What is the fraction written in simplest form?

$$\frac{48}{72}$$

a. $\frac{8}{12}$

c. $\frac{6}{9}$

b. $\frac{4}{6}$

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

_____ 19. Find the unknown measurement.

3 gallons = ? pints

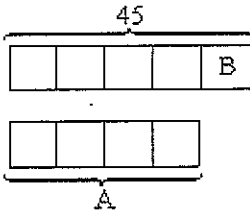
a. 6

c. 18

b. 12

d. 24

20. Find the values of A and B.



- a. $A = 36; B = 9$ c. $A = 20; B = 5$
b. $A = 27; B = 9$ d. $A = 36; B = 5$

21. Find the product. Express the product in simplest form.

$$3 \times 6\frac{5}{7}$$

- a. $9\frac{5}{7}$ c. $20\frac{1}{7}$
b. $18\frac{5}{7}$ d. $21\frac{1}{7}$

22. If 8 units represents 24 feet, find the value of 48 units.

- a. 144 c. 66
b. 64 d. 16

23. Write the ratio in simplest form.

$$36 \text{ in.} : 324 \text{ in.}$$

- a. 3 in. : 108 in. c. 4 in. : 36 in.
b. 1 in. : 9 in. d. 1 in. : 18 in.

24. Find two ratios equivalent to the given ratio.

$$5 : 7$$

- a. 10 : 14 and 20 : 35 c. 10 : 14 and 20 : 21
b. 25 : 35 and 30 : 42 d. 30 : 42 and 35 : 56

25. Find two ratios equivalent to the given ratio.

$$6 : 5$$

- a. 18 : 15 and 42 : 45 c. 24 : 20 and 36 : 35
b. 18 : 20 and 36 : 30 d. 12 : 10 and 48 : 40

26. Find the missing numerator and denominator.

$$\frac{5}{7} = \frac{\square}{21} = \frac{25}{\square}$$

- a. 10; 35 c. 15; 40
b. 20; 35 d. 15; 35

27. Find the missing numerator and denominator.

$$\frac{7}{12} = \frac{28}{\square} = \frac{\square}{84}$$

- a. 36; 49 c. 48; 49
b. 48; 56 d. 36; 42

28. Write the fraction in simplest form.

$$\frac{16}{48}$$

a. $\frac{8}{24}$

c. $\frac{1}{4}$

b. $\frac{4}{12}$

d. $\frac{1}{3}$

29. Find the product. Express your answer in simplest form.

$$\frac{12}{20} \times 35$$

a. 10

c. 22

b. 21

d. 27

30. Find the product. Express your answer in simplest form.

$$\frac{5}{16} \times 36$$

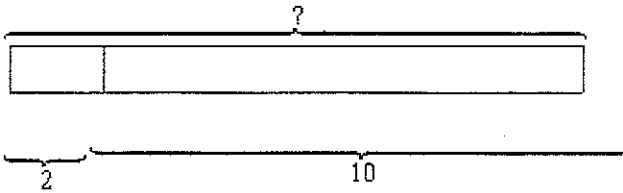
a. $3\frac{1}{2}$

c. $11\frac{1}{4}$

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

d. $11\frac{3}{4}$

31. Which operation can be represented by this bar model?



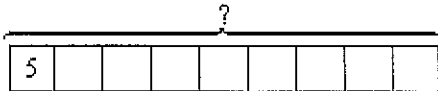
a. $2 + 10$

c. $10 \div 2$

b. $10 - 2$

d. 2×10

32. Which operation can be represented by this bar model?



a. $5 + 9$

c. $9 + 5$

b. $9 - 5$

d. 5×9

33. What are the common factors of the pair of numbers?
40 and 48

a. 1, 2, and 4

c. 1, 2, and 8

b. 1, 2, 4, and 6

d. 1, 2, 4 and 8

34. Complete the statement.

The _____ of 8 and 9 is 8×9 .

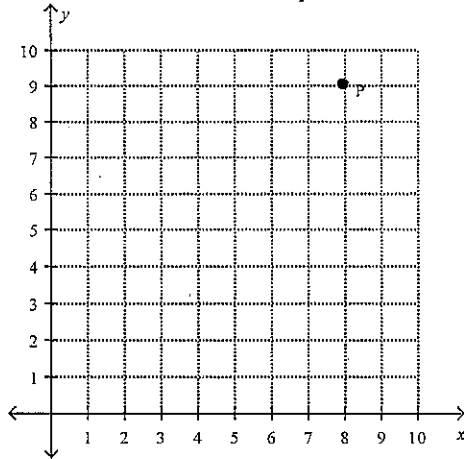
a. quotient

c. difference

b. sum

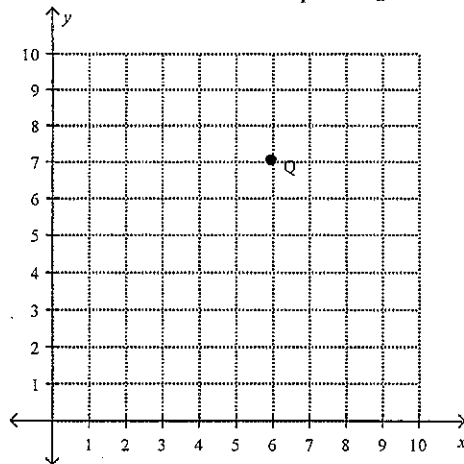
d. product

35. Complete the statement.
The _____ of 16 and 4 is $16 - 4$.
- a. quotient
b. sum
c. difference
d. product
36. Which number is less than $14 - 6$?
- a. 7
b. 8
c. 20
d. 146
37. Which statement is true?
- a. $7 \times 8 > 35 + 21$
b. $7 \times 8 < 35 + 21$
c. $8 \times 7 > 21 + 35$
d. $8 \times 7 = 35 + 21$
38. Which inequality symbol makes this comparison true?
 $4 \times 25 \bigcirc 100 \div 4$
- a. +
b. <
c. =
d. >
39. Name the coordinates for point P on the coordinate plane.



- a. (8, 9)
b. (8, 8)
c. (9, 9)
d. (7, 9)

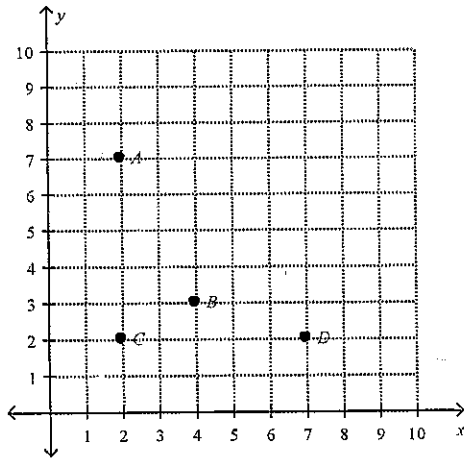
40. Name the coordinates for point Q on the coordinate plane.



- a. (7, 6)
- b. (6, 6)

- c. (6, 7)
- d. (7, 7)

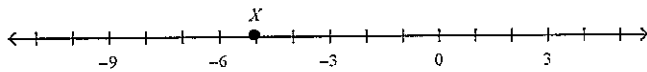
41. Which point is plotted at (7, 2)?



- a. A
- b. B

- c. C
- d. D

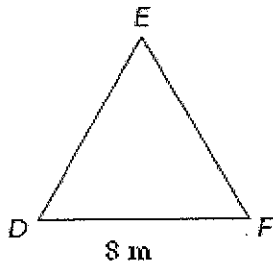
42. Name the number that Point X represents.



- a. 5
- b. 0

- c. -5
- d. -6

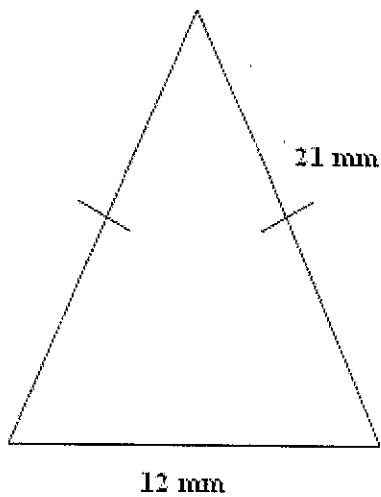
43. Find the perimeter of the equilateral triangle DEF.



- a. 4 m
- b. 8 m

- c. 24 m
- d. 32 m

44. Find the perimeter of the isosceles triangle below.



- a. 50 mm
- b. 54 mm
- c. 64 mm
- d. 63 mm

45. The length of a rectangle is 13 meters and its width is 8 meters. Find the area of the rectangle.

- a. 21 m^2
- b. 42 m^2
- c. 84 m^2
- d. 104 m^2

46. Add. $7.86 + 0.785$

- a. 7.075
- b. 7.545
- c. 8.585
- d. 8.645

47. Subtract. $7.124 - 0.986$

- a. 6.138
- b. 7.862
- c. 7.938
- d. 8.1110

48. Multiply. 6.45×3

- a. 1.935
- b. 19.35
- c. 193.5
- d. 1935

49. Divide. $2.79 \div 3$

- a. 0.093
- b. 0.93
- c. 9.3
- d. 93

50. Round 6.82 the nearest whole number.

- a. 5
- b. 6
- c. 7
- d. 8