

1. Select all that are equal to  $4 \times (2 + 3)$ .

- $(4 + 2) + (4 + 3)$   
  $(4 + 2) \times (4 + 3)$   
  $(4 \times 2) + (4 \times 3)$   
  $4 \times 2 + 3$   
  $4 \times 5$

2. Kelsey buys 4 packages of juice boxes for a class party. Each package has 2 rows with 5 juice boxes in each row. How many juice boxes does Kelsey buy in all?

- (A) 10 juice boxes  
 (B) 20 juice boxes  
 (C) 30 juice boxes  
 (D) 40 juice boxes

3. Find  $36 \div 4$ .

- (A) 9  
 (B) 8  
 (C) 6  
 (D) 5

4. Round 341 to the nearest hundred.

- (A) 400  
 (B) 300  
 (C) 340  
 (D) 350

5. Mr. Cole made this diagram of his bedroom. Which is the area of Mr. Cole's bedroom?



- (A) 90 square feet  
 (B) 82 square feet  
 (C) 72 square feet  
 (D) 36 square feet

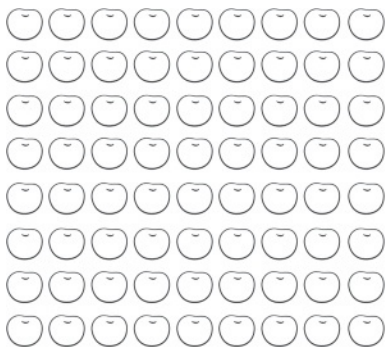
6. Find  $750 - 89$ .

- (A) 661                       (C) 681  
 (B) 671                       (D) 839

7. Which of the following are equal to  $345 + 110 + 85$ ? Select all that apply.

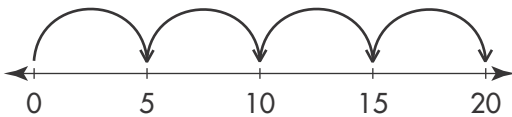
- $345 + 195$         $540$   
  $345 + 200$         $545$   
  $450 + 85$

8. Vernon picked 8 small baskets of peaches with 9 peaches in each basket. How many peaches did Vernon pick in all?



- (A) 63 peaches       (C) 72 peaches  
 (B) 64 peaches       (D) 81 peaches

9. Carrie used jumps on the number line to show  $4 \times 5$ . Which statement explains why this works?



- (A)  $4 \times 5$  is the same as  $5 + 5 + 5 + 5$ .  
 (B)  $4 \times 5$  is the same as skip counting by 5 four times.  
 (C)  $4 \times 5$  is the same as adding the distance from 0 to 5 four times.  
 (D) All of the above are correct.

10. Sheila has 4 boxes of trophies. Each box has 6 trophies. Which number sentence can Sheila use to find the number of trophies she has?

- (A)  $4 \times 6 = ?$   
 (B)  $4 + 6 = ?$   
 (C)  $6 \div 4 = ?$   
 (D)  $6 - 4 = ?$

11. Which of the following expressions are equal to  $3 \times 2 \times 4$ ? Indicate which property of multiplication is being used. Select all that apply.

- $3 \times 4 \times 2$ ; Associative Property  
  $4 \times 2$ ; Identity Property  
  $3 \times 4 \times 2$ ; Commutative Property  
  $(3 \times 2) \times 4$ ; Associative Property  
  $(3 \times 2) \times 4$ ; Commutative Property

12. What value in the multiplication table below is **NOT** correct?

$\times$	5	6	7	8
4	20	24	28	32
5	25	30	35	40
6	30	36	43	48
7	35	42	49	56

13. Becky bakes 30 trays of pretzels. Each tray has 8 pretzels. How many pretzels does Becky bake in all?

- (A) 90 pretzels
- (B) 180 pretzels
- (C) 240 pretzels
- (D) 360 pretzels

14. Create a multiplication equation that could be used to find  $56 \div 7$ .

- (A)  $56 \times 7 = ?$
- (B)  $7 \times ? = 56$
- (C)  $8 \times ? = 64$
- (D)  $56 \times 8 = ?$

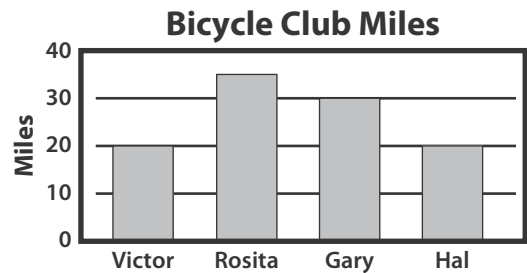
15. Which number will make all the number sentences in the fact family true?

$$32 \div 8 = ? \qquad 8 \times ? = 32$$

$$32 \div ? = 8 \qquad ? \times 8 = 32$$

- (A) 2
- (B) 3
- (C) 4
- (D) 8

16. Four friends record the miles they ride in a bicycle club. Which two friends rode the same number of miles?



- (A) Victor and Gary
- (B) Rosita and Hal
- (C) Hal and Victor
- (D) Gary and Hal

17. What is the sum of 384 and 336?

- (A) 610
- (B) 620
- (C) 710
- (D) 720

18. Maya walks about 90 meters in 1 minute. About how many meters does Maya walk in 8 minutes?

- (A) About 72 meters
- (B) About 90 meters
- (C) About 360 meters
- (D) About 720 meters

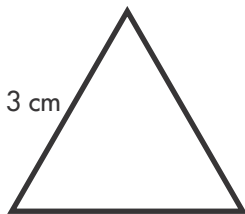
19. Create a multiplication equation that could be used to solve  $45 \div 5 = ?$ .

- (A)  $5 \times ? = 45$
- (B)  $45 \times ? = 5$
- (C)  $45 \times 5 = ?$
- (D)  $5 \times ? = 50$

20. Trey cut a pizza into 8 equal slices. He ate 2 slices. What fraction of the pizza is left?

- (A)  $\frac{1}{8}$
- (B)  $\frac{2}{8}$
- (C)  $\frac{2}{6}$
- (D)  $\frac{6}{8}$

21. Grace drew a triangle with sides of equal length. She measured one of the sides as 3 centimeters. What is the perimeter of Grace's triangle?



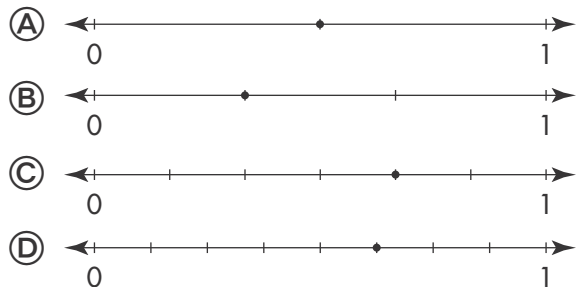
- (A) 3 square centimeters
- (B) 3 centimeters
- (C) 9 square centimeters
- (D) 9 centimeters

22. Which point represents  $\frac{5}{6}$  on the number line?



- (A) Point B
- (B) Point C
- (C) Point D
- (D) Point E

23. Which number line shows a point at  $\frac{1}{2}$ ?



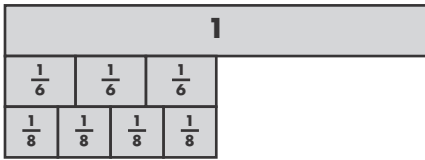
24. Jin has 34 feet of garden fence. He wants the shape of his garden to be a rectangle 5 feet wide. Which should be the length of Jin's garden?

- (A) 42 feet
- (B) 24 feet
- (C) 12 feet
- (D) 6 feet

25. Barry and 3 friends share 2 oranges equally. What fraction of an orange will each person get?

- (A)  $\frac{1}{2}$                       (C)  $\frac{3}{4}$   
 (B)  $\frac{2}{3}$                       (D)  $\frac{2}{2}$

26. Stanley ran  $\frac{4}{8}$  mile. Gary ran  $\frac{3}{6}$  mile. Who ran farther?



- (A) Stanley  
 (B) Gary  
 (C) They both ran the same distance.  
 (D) Not enough information is given.

27. Candy and Hershel folded the same-size square papers. Candy shaded  $\frac{2}{4}$  and Hershel shaded  $\frac{1}{2}$ . Are the fractions equivalent? Explain.

- (A) No, the squares are not divided into equal parts.  
 (B) No, the fractions have different denominators.  
 (C) Yes, the shaded parts cover an equal part of the whole.  
 (D) Yes, I guess they are equal.

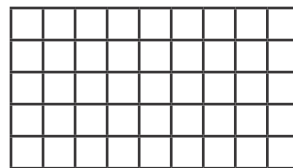
28. Dawn listed some attributes of quadrilaterals. Which is **NOT** an attribute of quadrilaterals?

- (A) A quadrilateral has four sides.  
 (B) A quadrilateral can have right angles.  
 (C) A quadrilateral has four angles.  
 (D) A quadrilateral can have at least one curved side.

29. A shape has 4 congruent sides and no right angles. Select all of the words that describe the shape.

- Square  
 Rhombus  
 Rectangle  
 Quadrilateral  
 None of the above

30. Jack drew a model of his storage closet on grid paper. What is the area of Jack's storage closet? Explain your method. Select all that apply.



Each  $\square$  = 1 square foot

- 45 square feet; I counted the tiles.  
  $5 \times 8$ ; I multiplied the side lengths.  
  $5 \times 9$ ; I multiplied the side lengths.  
 50; I counted the tiles.  
 40; I counted the tiles.

31. The Cruz family needs to buy a new vacuum. The family can buy a vacuum from Vicky's Vacuums and make 4 payments of \$80, or they can buy a vacuum from Al's Hardware and make 9 payments of \$50. Which store offers the better price?

- (A) Vicky's Vacuums
- (B) Al's Hardware
- (C) Both stores charge the same.
- (D) Not enough information is given.




32. This month, the Cullen family spent \$120 to fix the car and \$190 on groceries. They had \$400 at the start of the month. How much money did they have left after paying all the expenses?



- (A) \$90
- (B) \$100
- (C) \$210
- (D) \$280

33. Tonette says the capacity of her shampoo bottle is about 300 grams. Is Tonette's estimate reasonable? Choose the best answer.

- (A) Yes, 300 grams is a good estimate.
- (B) No, a better estimate would be 400 grams.
- (C) No, grams are units of mass. 300 milliliters is a better estimate.
- (D) No, that is too large for a shampoo bottle.

34. The picture graph below shows how many total hours Indy's classmates play, read, and watch TV after school. How many more hours are spent playing than reading?

Hours after School	
Play	
Read	
Watch TV	

Each  = 4 hours    Each  = 2 hours

- (A) 6 hours
- (B) 8 hours
- (C) 16 hours
- (D) 22 hours

35. Dave started talking on the phone at 5:30 P.M. He spent 15 minutes talking to Joe, and 30 minutes talking to Harry. At what time did Dave finish talking on the phone?

- (A) 6:15 P.M.
- (B) 6:45 P.M.
- (C) 7:00 P.M.
- (D) 7:30 P.M.

36. Devon earns \$5 every week. He listed things he wants to do. If he saves all of his money, how long will it take Devon to save enough to complete his list?

Pay Grandma back for \$10 loan.  
Give \$10 to charity.  
Put \$30 in savings.

- (A) 5 weeks
- (B) 7 weeks
- (C) 10 weeks
- (D) 15 weeks