

Directions: Answer the following question(s).

1 A gallon of water at room temperature weighs 6.74 pounds. Aiden puts 3.8 gallons of water into a bucket, how much does the water weigh in the bucket?

- A. 10.54 pounds
- B. 2.94 pounds
- C. 25.612 pounds
- D. 1.774 pounds
- E. None of the above

2 There are 547 students and 23 teachers at Baird. If you divide students so teachers have equal amount of students.

What is the dividend?

- A. 547
- B. 23
- C. 237
- D. 20
- E. None of the above

3 There are 30 boys and 40 girls in Mr. Wong's class. He wants to group all students so that each group has the same number of boys and girls as the other groups.

What is the greatest number of groups Mr. Wong can have?

How many boys are in each group?

How many girls are in each group?

Mark all correct answers.

- A. 120 groups
- B. 60 groups
- C. 5 groups
- D. 10 groups
- E. 6 boys
- F. 3 boys
- G. 10 boys
- H. 8 girls
- I. 10 girls
- J. 4 girls

4 Sally makes snack bags that contain a box of raisins and a granola bar. The granola bar comes 12 to a package and each package of raisins come with 20 boxes.

What is the least number of boxes of raisins and granola bars she can have in order to have the same number of boxes of raisins and number of granola bars with none left over?

How many packages of raisins will she need?

- A. 4 boxes of raisin and 4 granola bars
- B. 60 boxes of raisins and 60 granola bars
- C. 120 boxes of raisins and 120 granola bars
- D. 240 boxes of raisins and 240 granola bars
- E. 5 packages of raisins
- F. 20 packages of raisins
- G. 3 packages of raisins
- H. 12 packages of raisins

5 Which situations represent the integer -3 ?

Choose all that apply.

- A. A student answers a 3 point question.
- B. Mr. Wong gains 3 pounds.
- C. A golfer scores 3 under par.
- D. Mr. Wong withdraws 3 dollars from his bank account.
- E. Mr. Wong climbed up 3 flights of stairs.

6 A tree grows one and one-fourth feet per year. How long will it take the tree to grow from a height of eighteen and three-fourth feet to a height of twenty five feet tall?

- A. 3 years
- B. 4 years
- C. 5 years
- D. 6 years
- E. None of the above

Directions: Answer the following question(s).

- 7 It takes Zaven three and one-half hours to make a poster. He worked Monday through Thursday, seven hours a day.

How many posters can Zaven make in a week?

- A. 2 posters
- B. 4 posters
- C. 6 posters
- D. 8 posters
- E. 10 posters
- F. None of the above

- 8 A box of crackers weighs  $12\frac{3}{4}$  ounces. Alec says one serving is  $\frac{3}{8}$  ounce.

How many servings are in the box?

- A.  $12\frac{3}{8}$  servings
- B.  $4\frac{25}{32}$  servings
- C.  $12\frac{3}{4}$  serving
- D. 17 servings
- E. 34 servings
- F. None of the above

- 9 Luis added 4 strawberries for every 3 blueberries in his fruit smoothie. Select all the possible ways to show the ratio for strawberries to the total amount of fruit.

- A. 3:4
- B. 4:3
- C. 3:7
- D. 4:7
- E. 7 to 4
- F. 4 to 7
- G. 3 to 4
- H. 4 to 3
- I. 3 to 7

- 10 Bryson had 26 cars in a box that were either red, white, or blue. In the box 9 cars were blue and 12 cars were red.

What is the ratio of white cars to red cars?

- A. 7 to 26
- B. 12 to 26
- C. 7 to 12
- D. 1 to 2
- E. 5 to 12
- F. 9 to 5
- G. None of the above

- 11 Bennett ran 4 miles in 24 minutes, Ivan ran 6 miles in 39 minutes.

What were their unit rates?

Who is the faster runner?

- A. Bennett's unit rate is 7 miles per hour.
- B. Bennett's unit rate is 6 miles per hour.
- C. Bennett's unit rate is 7 minutes per mile.
- D. Bennett's unit rate is 6 minutes per mile.
- E. Bennett is a faster runner than Ivan.
- F. Ivan is a faster runner than Bennett.
- G. Ivan's unit rate is 6 minutes per mile.
- H. Ivan's unit rate is 6.5 minutes per mile.
- I. Ivan's unit rate is 7 minutes per mile.
- J. Ivan's unit rate is 6 miles per hour.
- K. Ivan's unit rate is 6.5 miles per hour.
- L. Ivan's unit rate is 7 miles per hour.

Directions: Answer the following question(s).

12 A box of almonds cost \$4.20 for 15 ounces. A box of pecans cost \$3.19 for 11 ounces.

What is unit rate for each box of nuts?

Which type of nut has a more expensive unit rate?

- A. 26 cents per ounce for almonds
- B. 26 cents pe ounce for pecans
- C. 27 cents per ounce for almonds
- D. 27 cents per ounce for pecans
- E. 28 cents per ounce for almonds
- F. 28 cents per ounce for pecans
- G. 29 cents per ounce for almonds
- H. 29 cents per ounce for pecans
- I. 35 cents per ounce for almonds
- J. 34 cents per ounce for pecans
- K. Alomonds are the more expensive nut.
- L. Pecans are the more expensive nut.

13 Hayden earns \$44 for babysitting for 8 hours. If Hayden charges the same rate, how much will she make for babysitting for 3 hours?

- A. \$22
- B. \$20
- C. \$132
- D. \$15
- E. \$18
- F. \$5.50
- G. None of the above

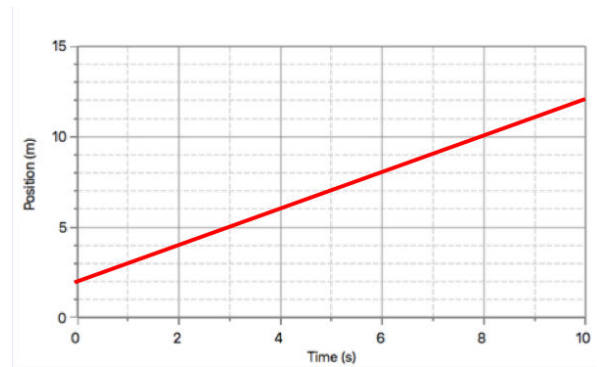
14 What is the missing number in the table below?

3	6	12	15	21
12	24	48	60	

- A. 72
- B. 84
- C. 96
- D. 120
- E. None of the above

15 Abby goes to the pool to swim laps.

Using the graph below, how far did Abby swim in 7 seconds.

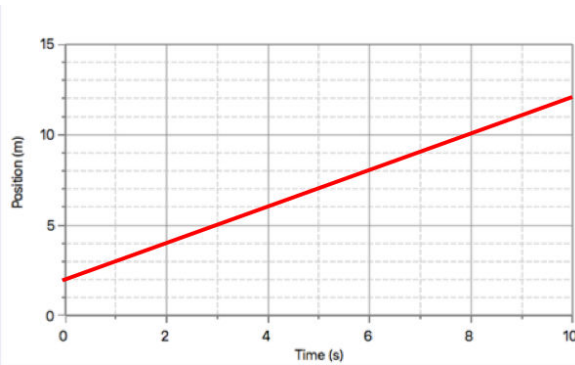


- A. 5 meters
- B. 7 meters
- C. 9 meters
- D. 10 meters
- E. 13 meters
- F. 15 meters
- G. None of the above

Directions: Answer the following question(s).

- 16 Abby goes to the pool to swim laps.

Using the graph below, how far did Abby swim in 13 seconds.



- A. 11 meters  
 B. 12 meters  
 C. 13 meters  
 D. 14 meters  
 E. 15 meters  
 F. 16 meters  
 G. None of the above

- 17 Ruby made a mosaic wall mural using 100 tiles. She used black, blue, and red tiles in the mural. On the wall there are 37 black tiles and 48 blue tiles, the rest were red tiles. What percent of the red tiles were used?

- A. 37%  
 B. 48%  
 C. 25%  
 D. 15%  
 E. 63%  
 F. 52%  
 G. None of the above

- 18 The school band has 32 wood wind instruments, 26 percussion instruments, 22 string instruments, and 20 bass instruments.

What are the possible ways to write what portion of the band are percussion instruments?

- A. 32%  
 B. 26%  
 C. .2  
 D. .22  
 E. .26  
 F.  $\frac{1}{5}$   
 G.  $\frac{13}{50}$   
 H.  $\frac{8}{25}$

- 19 There are 60 marbles in a bin and 35% of the marbles are orange.

How many orange marbles are in the bin?

- A. 35 orange marbles  
 B. 30 orange marbles  
 C. 25 orange marbles  
 D. 24 orange marbles  
 E. 21 orange marbles  
 F. 20 orange marbles  
 G. None of the above

- 20 Andrew has 80 CD's in his music collection. If 35% of the CDs are country music and 45% are pop music, how many CDs are the remaining types of music?

- A. 28 CDs  
 B. 36 CDs  
 C. 16 CDs  
 D. 35 CDs  
 E. 45 CDs  
 F. 20 CDs  
 G. None of the above

Directions: Answer the following question(s).

- 21 A baker made 80 muffins from a cafe. By noon 35% of the muffins were sold.
- How many muffins were sold?
- How many muffins were left?
- A. 35 muffins were sold
  - B. 35 muffins were left
  - C. 45 muffins were sold
  - D. 45 muffins were left
  - E. 28 muffins were sold
  - F. 28 muffins were left
  - G. 32 muffins were sold
  - H. 32 muffins were left
  - I. 52 muffins were sold
  - J. 52 muffins were left
  - K. 24 muffins were sold
  - L. 24 muffins were left
- 22 Audrey planted cabbage, squash, and carrots on his 350-acre farm. He planted half the farm with carrots and 22% with cabbage.
- How many acres did he plant with squash?
- A. 125 acres
  - B. 175 acres
  - C. 98 acres
  - D. 77 acres
  - E. 45 acres
  - F. None of the above
- 23 There were 180 people at the concert. If 45% of the seats were filled, how many seats were in the auditorium?
- A. 81 seats
  - B. 45 seats
  - C. 99 seats
  - D. 180 seats
  - E. 320 seats
  - F. 400 seats
  - G. None of the above
- 24 Jalen saves his coins in a jar. 65% of the coins are pennies. If there are 340 coins in the jar, how many pennies does Jalen have?
- A. 65 pennies
  - B. 221 pennies
  - C. 500 pennies
  - D. 340 pennies
  - E. 119 pennies
  - F. None of the above
- 25 Choose  $<$ ,  $>$ ,  $=$
- 3 miles \_\_\_\_\_ 6000 yards
- A.  $<$
  - B.  $>$
  - C.  $=$
  - D. None of the above
- 26 It takes 37 gallons of water for a washing machine to wash a load of laundry.
- How many quarts of water does it take to wash one load?
- A. 37 quarts
  - B. 74 quarts
  - C. 148 quarts
  - D. 296 quarts
  - E. None of the above
- 27 Addy's computer weighs 72 ounces, how many pounds does it weigh?
- A. 3.5 pounds
  - B. 4.5 pounds
  - C. 5.5 pounds
  - D. 6 pounds
  - E. 7.2 pounds
  - F. None of the above

Directions: Answer the following question(s).

- 28 Benjamin's living room is a rectangle measuring 14 yards by 216 inches.

By how many inches does the length of the room exceed the width?

By how many feet does the length of the room exceed the width?

- A. 42 feet
- B. 24 feet
- C. 18 feet
- D. 8 feet
- E. 48 inches
- F. 96 inches
- G. 216 inches
- H. 288 inches
- I. 504 inches

- 29 Choose  $<$ ,  $>$ ,  $=$

950 centimeters \_\_\_\_\_ 1 meter

- A.  $<$
- B.  $>$
- C.  $=$
- D. None of the above

- 30 Jeremy rides a bicycle for 2.8 kilometers to school. Luke walks 950 meters to school.

How much farther does Jeremy have to ride his bike to school in meters?

- A. 850 meters
- B. 950 meters
- C. 1,850 meters
- D. 2,800 meters
- E. 3,750 meters
- F. None of the above

- 31 Miles cycled 75 miles at a rate of 20 miles per hour.

How long will it take for Miles to cycle 75 miles?

- A. 3 hours
- B. 3.25 hours
- C. 3.05 hours
- D. 3.5 hours
- E. 3.75 hours
- F. None of the above

- 32 Eva rode 27 miles in  $2\frac{3}{4}$  hours.

What was Eva average rate?

- A. 7.7 miles per hour
- B. 13 miles per hour
- C.  $7\frac{7}{11}$  miles per hour
- D.  $2\frac{5}{11}$  miles per hour
- E. 13.5 miles per hour
- F. None of the above