

Directions: Answer the following question(s).

- 1 Jackson's dad has just opened a sports store and Jackson is helping him price the tennis balls. Jackson's dad has told him they need to charge more than \$2.75 per tennis ball. Jackson has thought of five different rates to charge. Which of the following rates will price tennis balls as greater than \$2.75 per ball? Select *all* that apply.

Choice	Amount Charged
A	\$32 for 12 tennis balls
B	\$42 for 15 tennis balls
C	\$70 for 25 tennis balls
D	\$95 for 35 tennis balls
E	\$80 for 30 tennis balls

- A. Choice A  
 B. Choice B  
 C. Choice C  
 D. Choice D  
 E. Choice E  
 F. None

- 2 Select all statements are true.

- A.  $1\frac{4}{5}$  is between 1 and 2  
 B.  $-3\frac{3}{4}$  is between -3 and -4  
 C.  $\frac{1}{3}$  is between 0 and -1  
 D.  $7\frac{1}{5}$  is between -7 and -8  
 E.  $-6\frac{1}{2}$  is between -5 and -6

- 3 Brooke's printer can produce 12 photographs in 60 seconds. At this rate, how many photos can she expect her printer to produce in 100 seconds?

- A. 500  
 B. 300  
 C. 52  
 D. 20

- 4 A marine biologist is studying ocean animals and has recorded the current depths of some of those animals.

Ocean Animal	Current Depth
starfish	-72.1 feet below sea level
nurse shark	-59.7 feet below sea level
lobster	-60.75 feet below sea level
stingray	-65.4 feet below sea level
angelfish	-48.3 feet below sea level
barracuda	-61.75 feet below sea level

The marine biologist has submerged a camera to a depth of -61.5 feet below sea level. He claims that the camera is farther away from sea level than any of the ocean animals. Which ocean animals prove the marine biologist's claim is *false*?

- A. starfish  
 B. nurse shark  
 C. lobster  
 D. stingray  
 E. angelfish  
 F. barracuda

- 5 Two-fifths of the fish in Arden's fish tank are guppies. One-third of the guppies are red. What fractional part of the fish in Arden's tank are not red guppies?

- A.  $\frac{3}{5}$   
 B.  $\frac{1}{3}$   
 C.  $\frac{4}{15}$   
 D.  $\frac{2}{15}$   
 E.  $\frac{1}{4}$

Directions: Answer the following question(s).

- 6 There are 24 sixth grader and 36 seventh graders in the Chess Club. Mr. Isaac wants to organize the club members in to equal-sized groups with no left over students. Each group will only have sixth or only seventh graders. What are the greatest size groups Mr. Isaac can form and how many groups will he have in total?

- A. 24 groups with 2 students in each group
- B. 12 groups with 5 students in each group
- C. 5 groups with 12 students in each group
- D. 4 groups with 15 students in each group
- E. 15 groups with 4 students in each group
- F. 10 groups with 6 students in each group
- G. 6 groups with 10 students in each group

- 7 Write the values from least to greatest?

-0.6, 1.7,  $-2/3$ ,  $1/5$ , -0.65,  $7/4$

- A.  $7/4$ , 1.7,  $-2/3$ ,  $1/5$ , -0.65, -0.6
- B. -0.6,  $-2/3$ , -0.65,  $1/5$ ,  $7/4$ , 1.7
- C.  $-2/3$ , -0.65, -0.6,  $1/5$ , 1.7,  $7/4$
- D. -0.65, -0.6,  $-2/3$ ,  $1/5$ ,  $7/4$ , 1.7
- E. -0.6, -0.65,  $-2/3$ ,  $7/4$ , 1.7

- 8 Blake's house is locate at the point (-7, -2) on a coordinate plane. The location of Tyler's house is a reflection of Blake's house across the x-axis. What is the coordinates of Tyler's house?

- A. (-7, 2)
- B. (7, -2)
- C. None
- D. (-7, -2)
- E. (7, 2)

- 9 Blake's house is locate at the point (-7, -2) on a coordinate plane. The location of Tyler's house is a reflection of Blake's house across the x-axis. What quadrant is Tyler's house located?

- A. I
- B. IV
- C. None
- D. III
- E. II

- 10 Five teachers went shopping at a music store. Use the table below to find the correct statement(s) below.

Teacher	Number of DVDs	Total Cost	Average Cost
Mrs. Caruso	3	\$36.54	
Mr. Isaac	5		\$8.67
Mrs. Peranick	5	\$49.55	
Mrs. Robillard	7	\$54.46	
Mr. Wong	7		\$8.13

- A. Mrs. Caruso's average cost was the same as Mr. Wong's average cost.
- B. Mr. Isaac's total cost was \$43.55.
- C. Mrs. Robillard's average cost was \$7.78.
- D. Mr. Isaac's total cost was \$43.35.
- E. Mrs. Robillard's average cost was \$7.08.
- F. Mrs. Peranick's average cost was more than Mr. Wong's average cost.

- 11 Andrea picked some grapefruit. Each grape fruit was  $2/3$  pounds. When she finishes picking grapefruit, she has a box that weight 15 pounds. How many grapefruit are in the box?

- A. 10 grapefruit
- B. 21 grapefruit
- C. 30 grapefruit
- D. 22 grapefruit
- E. 45 grapefruit
- F. 23 grapefruit

Directions: Answer the following question(s).

- 12 Andrea picked some grapefruit. Each grape fruit was  $\frac{2}{3}$  pounds. When she finishes picking grapefruit, she has a box that weight 15 pounds. If the box weighs the extra amount, how much does the box weigh?
- A.  $\frac{2}{3}$  pound  
B.  $\frac{1}{3}$  pound  
C.  $\frac{1}{2}$  pound  
D.  $\frac{1}{4}$  pound  
E.  $\frac{3}{4}$  pound  
F. 1 pound
- 13 Select the conversions that are equivalent to 6 yards.
- A. 72 inches  
B. 18 inches  
C. 72 feet  
D. 18 feet  
E. 48 inches
- 14 Meredith runs at a rate of 160 meters per minute.  
Mark all statements are correct.
- A. Meredith run 700 meters in 5 minutes.  
B. Meridith runs 8 kilometers in 5 minutes.  
C. Meredith runs 1120 meters in 7 minutes.  
D. It takes Meredith 50 minutes to run 8 kilometers.  
E. It takes Meredith 7 minutes to run 1 kilometer.  
F. It takes Meredith 10 minutes to 16000 meters.
- 15 Mark all inequalities that are true.
- A. 34.7 liters  $>$  347 centiliters  
B. 54 feet  $>$  20 yards  
C. 45 inches  $<$  4 feet  
D. 3 kilometer = 3000 meters  
E. 7 tons  $>$  13000 pounds  
F. 32 pints = 8 quarts  
G. 7 kilograms  $<$  700 centigrams
- 16 Julia's car has a gas mileage of 27 miles per gallon. How many miles can Julia travel on 7.6 gallons of gas?
- A. 34.6 miles  
B. 19.4 miles  
C. 3.55 miles  
D. 2052 miles  
E. 205.2 miles  
F. 351 miles
- 17 A rectangular room measures 13 feet by 120 inches. Julianna wants to know which statement(s) are true.
- A. The area of the room is 1560 square inches.  
B. The area of the room is 18720 square inches.  
C. The length of one side of the room 156 inches.  
D. The length of one side of the room is 12 feet.  
E. The area of the room is 156 square feet,  
F. The area of the room is 130 square feet.
- 18 Select all statements that are correct.
- A. 16 is 20% of 80  
B. 15 is 30% of 60  
C. 18 is 75% of 24  
D. 12 is 25% of 44  
E. 72 is 60% of 120
- 19 George has 40 CDs in his music collection. If 45% of the CDs are country music and 25% are pop music. Select all statement(s) that are true.
- A. 10 other types of CDs  
B. 18 country music CDs  
C. 12 pop music CD's  
D. 24 country music CDs  
E. 12 other music CDs

Directions: Answer the following question(s).

20 Select all choices that are equivalent to 0.6%

- A.  $6/100$
- B. 0.06
- C.  $3/50$
- D.  $3/500$
- E.  $1/25$
- F. 0.006
- G. 0.6

21 Cyan made an mosaic wall mural using 34 purple tiles, 21 blue tiles, 15 orange tiles, and 30 white tiles. What percent represents the number of tiles that are not orange or purple?

- A. 34%
- B. 49%
- C. 51%
- D. 15%
- E. 66%
- F. 45%

22 James and Katie went out ot lunch. The price for both lunches was \$47. They tipped 18% of that amount.

Mark all answers that apply.

- A. The tip was \$8.46
- B. They each paid \$23.50 in total
- C. There total bill was \$31.96 each.
- D. The total bill including tip was \$55.46
- E. They each had to pay more than \$30
- F. The total bill was \$65.00

23 What percentage of 40 is 12?

- A. 28%
- B. 30%
- C. 48%
- D. 52%

24 Put a check mark next to all of the false comparisons below.

- A.  $-6 < -4$
- B.  $10 < -12$
- C.  $0 > -5$
- D.  $1 > -8$

25 Use the chart to answer the following question.

Name	Depth below sea level
Blake	-12
Chad	-5
George	-9
Tony	-15

Mike and his four friends went scuba diving. Mike is currently -9 feet below sea level. Which friend's depth is at an absolute value less than Mike?

- A. Blake
- B. Chad
- C. George
- D. Tony