

Name: LOZ Mckenzie Class: Math Date: 2-12-2021 ID: A

Ratio Test

$-4 \frac{21}{25} + 2 = \frac{23}{25}$  #1-9 are 2 points each except #6 - it's extra credit

1. There are 15 colored pencils and 4 regular pencils in Jenny's school bag. What is the ratio of the number of colored pencils to the number of regular pencils in her school bag?

A. 19 : 4  
B. 15 : 11  
C. 19 : 11  
☒ D. 15 : 4

2. Which of the following is equivalent to 16 : 12?

A. 3 : 2  
☒ B. 4 : 3  
C. 5 : 4  
D. 6 : 2

3. What are the 2 parts when \$21 is divided in the ratio 2 : 1 ?

A. \$8 and \$4  
B. \$11 and \$10  
C. \$12 and \$6  
☒ D. \$14 and \$7

4. The ratio of the number of boys to the number of girls in a class is 2 : 1. There are 26 boys in the class. How many girls are in the class?

A. 12 girls  
☒ B. 13 girls  
C. 26 girls  
D. 39 girls

2 : 1  
26 boys  
girls ?  
 $26 \div 2 = 13$

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5. A triangle has side lengths of 3 inches, 4 inches, and 5 inches. Which of the following lengths would not form a triangle with side lengths in the same ratio?

- 2  
☒ A. 60 feet, 80 feet, and 100 feet  
☐ B. 30 meters, 60 meters, and 90 meters  
☐ C. 45 yards, 60 yards, and 75 yards  
☐ D. 36 centimeters, 48 centimeters, and 60 centimeters

Extra credit

6. Of all the houses on Elm Street,  $\frac{2}{3}$  are painted white. There are 4 painted gray. All the others are yellow. There are 24 houses altogether. What is the ratio of gray houses to yellow houses to white houses?

2 points

- +2  
☒ A. 1 : 1 : 4  
☐ B. 2 : 3 : 4  
☐ C. 4 : 1 : 1  
☐ D. 4 : 16 : 24

$24 \div 3 = 8$      $\frac{2}{3}$      $4:4:16 = 1:1:4$   
 $4 \text{ painted gray}$      $16/24$      $\text{Yellow?}$   
 $24 - 20 = 4$      $16 + 4 = 20$      $4 \times 2/10 = 4$

7. The table shows the amount of gas used by Mr. Ahmad to drive different distances

-2

Amount of Petrol Used	Distance Travelled
6 gallons	48 miles
9 gallons	72 miles

7.  $\frac{15}{120} = \frac{1}{8}$   
 $48 + 72 = 120$   
 $6 + 9 = 15$      $15:120$

Find the ratio of gas used by Mr. Ahmad to the distance traveled.

8. Write the given ratio in simplest form.

$12:6:22 = 6:3:11$

9. What number completes the equivalent ratio?

$8:9:3 = 64:72:24$

3

points

10. On the day before a holiday, the ratio of the number of turkeys sold to the number of chickens sold at a supermarket was 4 : 3. The number of turkeys sold was 56. How many chickens were sold that day?

$4:3$      $56 \div 4 = 14$   
 $56:42$      $14 \times 3 = 42$

42 chickens were sold that day



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- 3 points 11. The ratio of the number of teachers to the number of students on a field trip was 1 : 20. There were 320 students on the field trip. Find the number of teachers present on the field trip.

$320 \div 20 = 16$   
 There were 16 teachers present on the field trip.

20 40 60 80 100 120 140 160 180 200 220 240 260  
 1 2 3 4 5 6 7 8 9 10 11 12 13

- 3 points 12. The ratio of the amount of salt in Box A to the amount of salt in Box B is 3 : 2. Box A contains 6 grams more salt than Box B. What is the total amount of salt, in grams, in the two boxes?

$18 + 12 = 30$   
 BOX A : BOX B  
 3 : 2  
 The total amount of salt, in grams, in the two boxes is 30 grams.  
 $18 - 6 = 12$   
 BOX A contains 6 grams more than BOX B

$6 \times 3 = 18$   
 $6 \times 2 = 12$

#10-12 are worth 3 points each  
 1 point for the correct answer  
 1 point for labeling correctly  
 1 point for showing your work/effort