

Proportions - Multiple Choice

Date _____ Period _____

State if each pair of ratios forms a proportion.

1) $\frac{2}{4}$ and $\frac{12}{16}$

- A) Yes B) No

Solve each proportion.

3) $\frac{7}{15} = \frac{n}{12}$

- A) 6.5 B) 5.3
-
- C) 5.6 D) 4.9

5) If a 24 m tall flagpole casts a 16 m long shadow, then how long is the shadow that a 8 m tall petrified stump casts?

- A) 5.1 m B) 5.33 m
-
- C) 12 m D) 5.75 m

7) A model plane has a scale of 1:15. If the real plane is 20 m tall, then how tall is the model plane?

- A) 1.25 cm B) 1.33 cm
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- C) 0.67 cm D) 0.75 cm

8) Three packages of cashews costs \$10. At that price, how many packages of cashews can you buy for \$25?

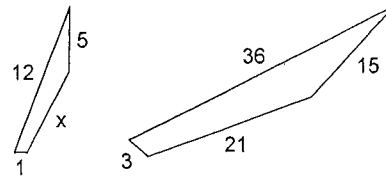
- A) 15 B) 8
-
- C) 7 D) 7.5

9) A painting is 15 in tall and 12 in wide. If it is reduced to a height of 3 in, then how wide will it be?

- A) 2.5 in B) 3.75 in
-
- C) 3.25 in D) 2.4 in

Each pair of figures is similar. Find the missing side.

2)



- A) 36 B) 5
-
- C) 7 D) 3

4) $\frac{7}{8} = \frac{5}{n}$

- A) 6.0 B) 5.7
-
- C) 5.71 D) 5.72

6) A map has a scale of 2 cm : 16 km. If Rivertown and Union are 32 km apart, then they are how far apart on the map?

- A) 3 cm B) 1 cm
-
- C) 256 cm D) 4 cm

10) The currency in Kuwait is the Dinar. If the exchange rate is approximately 3 Dinars = \$8, at this rate, how many Dinars would you get if you exchanged \$26?

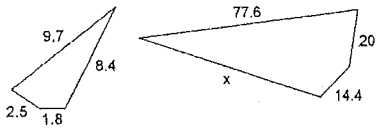
- A) 9.5 Dinars B) 10 Dinars
-
- C) 69.3 Dinars D) 9.75 Dinars

Proportions – Show Work

Name _____

Date _____ Period ____

Round decimal answers to two place when necessary.

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|---|--|
| <p>1. Solve the proportion for b.</p> $\frac{5}{9} = \frac{a}{4}$ | <p>2. Find the missing side by setting up a proportion.</p>  |
| <p>Solve the following problems by setting up and solving a proportion. For #3, be sure to include a drawing.</p> | |
| <p>3. A 16 ft tall tree standing next to a baby giraffe casts a 30 ft shadow. If the baby giraffe casts a shadow that is 12 ft long, then how tall is it?</p> | <p>4. A model motorcycle has a scale of 1:14. If the real motorcycle is 8 ft long, then how long is its model?</p> |
| <p>5. A rectangle is 5.2 in wide and 11.6 in tall. If it is reduced to a width of 1.3 in, then what will its height be?</p> | <p>6. If you can buy three kiwi fruit for \$4.00, how many can you buy with \$10?</p> |