

PAlg - Chap 6 Practice Test, IA Ver 1

© 2011 Kuta Software LLC. All rights reserved.

(6-1) Answer the following questions.

- 1) A 50-pound bag of Glossy Coat Horse Feed costs \$23.50. A 25-pound bag costs \$15.50. How much money per pound would you save by buying the bag with the lower unit price?

(6-1) Answer the following questions.

- 2) Karla and her dad were nailing up plywood. They started at 10:00. Karla drove 30 nails in 10 min, the time it took her dad to drive 50 nails. At that rate for each, when did they finish driving 392 nails in all?

(6-3) Solve each proportion.

3) $\frac{8}{x} = \frac{3}{10}$

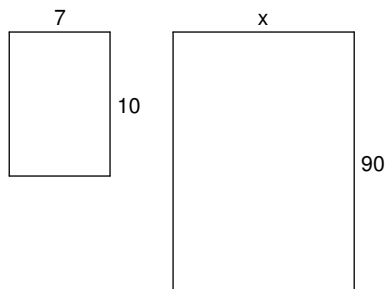
4) $\frac{4.3}{m} = \frac{9}{9.9}$

(6-3) Answer the question and round your answer to the nearest whole number.

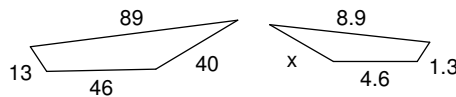
- 5) The currency in China is the Yuan. The exchange rate is approximately \$1 to 8 Yuan. At this rate, how many dollars would you get if you exchanged 16 Yuan?

(6-4) Each pair of figures is similar. Find the missing side.

6)



7)

**(6-4) Answer each question and round your answer to the nearest whole number.**

- 8) If a 4 ft tall bird bath casts a 12 ft long shadow then how long is the shadow that a 6 ft tall woman casts?

(6-4) Write each as a percent. Round to the thousandths place if needed.

9) 0.12

10) $6\frac{29}{100}$

(6-4) Write each as a decimal. Round to the thousandths place if needed.

11) 368%

12) $\frac{43}{50}$

(6-4) Write each as a fraction. Be sure to reduce if possible.

13) 187.5%

14) 0.4

(6-5 and 6-6) Solve each problem.

15) 63 is what percent of 64?

16) 55% of 146.4 is what?

17) 8% of what is 149.9?

18) What percent of 92 hours is 27 hours?

(6-7) Find each percent change. Round to the nearest tenth of a percent if needed. State if it is an increase or decrease.

19) From 23 to 21

20) From 41 inches to 65 inches

(6-8) Find the selling price of each item.

21) Cost of an MP3 player: \$249.99
Markup: 50%

22) Original price of an SUV: \$6,000.00
Discount: 20%

(6-9) Consider the following situation, then answer the question below.

23) In a survey of 240 students, 40% said their favorite color is green. $\frac{3}{16}$ said their favorite color is blue. How many more students are there who prefer green than students who prefer blue?

(6-10) Consider the following information, then answer the question (Hint: Round to the nearest whole person after each year).

24) The population of a town increases at the rate of 1% each year. Today the town's population is 8,500. What will the population be in 3 years?

(6-10) Consider the following information, then answer the question (Hint: $d = r \cdot t$).

25) You and your friend ride bicycles in opposite directions. You travel at 4.5 mi/h. Your friend travels at 6 mi/h. After 3 hours, how many miles apart are you and your friend?

PAIg - Chap 6 Practice Test, IA Ver 1

Date _____ Period _____

© 2011 Kuta Software LLC. All rights reserved.

(6-1) Answer the following questions.

- 1) A 50-pound bag of Glossy Coat Horse Feed costs \$23.50. A 25-pound bag costs \$15.50. How much money per pound would you save by buying the bag with the lower unit price?

\$0.15**(6-1) Answer the following questions.**

- 2) Karla and her dad were nailing up plywood. They started at 10:00. Karla drove 30 nails in 10 min, the time it took her dad to drive 50 nails. At that rate for each, when did they finish driving 392 nails in all?

10:49**(6-3) Solve each proportion.**

3) $\frac{8}{x} = \frac{3}{10}$

{26.66}

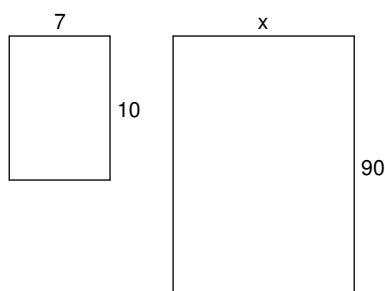
4) $\frac{4.3}{m} = \frac{9}{9.9}$

{4.72}**(6-3) Answer the question and round your answer to the nearest whole number.**

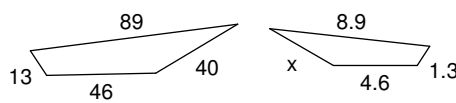
- 5) The currency in China is the Yuan. The exchange rate is approximately \$1 to 8 Yuan. At this rate, how many dollars would you get if you exchanged 16 Yuan?

\$2**(6-4) Each pair of figures is similar. Find the missing side.**

6)

**63**

7)

**4****(6-4) Answer each question and round your answer to the nearest whole number.**

- 8) If a 4 ft tall bird bath casts a 12 ft long shadow then how long is the shadow that a 6 ft tall woman casts?

18 ft**(6-4) Write each as a percent. Round to the thousandths place if needed.**

9) 0.12

12%

10) $6\frac{29}{100}$

629%

(6-4) Write each as a decimal. Round to the thousandths place if needed.

11) 368%
3.68

12) $\frac{43}{50}$
0.86

(6-4) Write each as a fraction. Be sure to reduce if possible.

13) 187.5% $1\frac{7}{8}$

14) 0.4 $\frac{2}{5}$

(6-5 and 6-6) Solve each problem.

15) 63 is what percent of 64?
98.4%

16) 55% of 146.4 is what?
80.5

17) 8% of what is 149.9?
1873.8

18) What percent of 92 hours is 27 hours?
29.3%

(6-7) Find each percent change. Round to the nearest tenth of a percent if needed. State if it is an increase or decrease.

19) From 23 to 21
8.7% decrease

20) From 41 inches to 65 inches
58.5% increase

(6-8) Find the selling price of each item.

21) Cost of an MP3 player: \$249.99
Markup: 50%
\$374.99

22) Original price of an SUV: \$6,000.00
Discount: 20%
\$4,800.00

(6-9) Consider the following situation, then answer the question below.

23) In a survey of 240 students, 40% said their favorite color is green. $\frac{3}{16}$ said their favorite color is blue. How many more students are there who prefer green than students who prefer blue?
51

(6-10) Consider the following information, then answer the question (Hint: Round to the nearest whole person after each year).

24) The population of a town increases at the rate of 1% each year. Today the town's population is 8,500. What will the population be in 3 years?
8758

(6-10) Consider the following information, then answer the question (Hint: $d = r \cdot t$).

25) You and your friend ride bicycles in opposite directions. You travel at 4.5 mi/h. Your friend travels at 6 mi/h. After 3 hours, how many miles apart are you and your friend?
31.5 mi