

Chapter 8 Test Form B
Tussy-Gustafson Prealgebra 3rd edition

Name: _____
Date: _____

Find the answer for each problem.

1. Solve the proportion. $\frac{y}{7} = \frac{7}{6}$ 1. _____

2. Convert 18 yards to inches. 2. _____

3. Write the phrase as a unit rate. 210 miles in 3 hours 3. _____

4. Find the unit cost per minute for phone usage. 4. _____
\$30 per 120 minutes

5. One lap around a high school track is 400 meters long. 5. _____
Express three laps in feet. (1 m = 3.2808 ft)

6. Express the phrase as a ratio in lowest terms. 24:30 6. _____

7. Convert 5 meters to decimeters. 7. _____

8. A gold earring weighs 320 milligrams. Express this weight in grams. 8. _____
9. A certain brand of coffee sells at \$9.99 for 16 ounces. How much would you expect to pay for 60 ounces of this coffee? Round to the nearest penny. 9. _____
10. Determine whether the statement is a true proportion. 10. _____
- $$\frac{7}{8} = \frac{8}{9}$$
11. Convert 0.32 millimeters to dekameters. 11. _____
12. Convert 10 pounds to ounces. 12. _____
13. Solve the proportion. $\frac{4}{3} = \frac{p-2}{6}$ 13. _____

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14. Convert 5 days to minutes. 14. _____
15. Convert 14 pints to quarts. 15. _____
16. Convert 28 hectometers to millimeters. 16. _____
17. Write the rate as a fraction in simplest form. 17. _____
102 miles in 4 minutes
18. Convert 7 milliliters to liters. 18. _____
19. How many fluid ounces are in two gallons of milk? 19. _____
20. An administrative assistant can type a document containing 472 words in 8 minutes. How many words per minute did the assistant type? 20. _____

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21. The outside temperature is -5°C . Find the temperature in Fahrenheit using the formula, $F = \frac{9}{5}C + 32$. 21. _____
22. A package weighs 70 pounds. How much does the package weigh in kilograms if $1 \text{ lb} = 0.454 \text{ kg}$? 22. _____
23. Solve the proportion. $\frac{4.2}{a} = \frac{5.8}{6}$
Round your answer to the nearest tenth. 23. _____
24. A truck weighs 3.7 tons. Express this weight in pounds. (1 ton = 2,000 lb) 24. _____
25. Convert 5,088 milligrams to grams. 25. _____

Chapter 8 Test Form C
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Name: _____

Date: _____

Choose the correct answer for each problem.

1. Solve the proportion. $\frac{4}{x} = \frac{3}{5}$
a. 20 b. 6 c. $\frac{20}{3}$ d. $\frac{3}{20}$

2. Find the unit cost per minute for phone usage. \$60 per 600 minutes
a. \$0.36 per minute b. \$0.10 per minute c. \$1.00 per minute d. \$0.01 per minute

3. Express the phrase as a ratio in lowest terms. 20:24
a. 10:12 b. $\frac{20}{24}$ c. $\frac{5}{6}$ d. $\frac{10}{12}$

4. Convert 56 ounces to pounds.
a. 5.6 lbs b. $3\frac{1}{2}$ lbs c. $4\frac{2}{3}$ lbs d. 4 lbs

5. How many fluid ounces are in two pints of milk?
a. 64 oz b. 8 oz c. 16 oz d. 32 oz

6. Convert 22 yards to inches.
a. 792 in b. 264 in c. 1,056 in d. 66 in

7. One lap around a high school track is 400 meters long. Express four laps in feet. (1 m = 3.2808 ft)
Round to the nearest tenth.
a. 3,280.8 ft b. 1,312.3 ft c. 3,937.0 ft d. 5,249.3 ft

8. Convert 45 millimeters to meters.
- a. 45,000 m b. 4.5 m c. 0.45 m d. 0.045 m
9. Convert 691,200 seconds to days.
- a. 8 days b. 28,800 days c. 480 days d. 6 days
10. Convert 16 quarts to gallons.
- a. 2 gal b. 8 gal c. 4 gal d. $2\frac{2}{3}$ gal
11. Write the phrase as a unit rate. 80 revolutions in 5 minutes
- a. 80 revolutions per 5 minute b. 16 revolutions per minute
c. 16 revolutions per 5 minutes d. 5 revolutions per minute
12. Convert 258,328 milligrams to kilograms.
- a. 258328 kg b. 2.58328 kg c. 0.258328 kg d. 258,328,000,000 kg
13. Solve the proportion. $\frac{8}{3.5} = \frac{t}{5.2}$ Round your answer to the nearest tenth.
- a. 5.4 b. 11.9 c. 0.2 d. 2.3
14. The outside temperature is -15°F . Find the temperature in Celsius using the formula,
 $C = \frac{5}{9}(F - 32)$. Round your answer to the nearest tenth.
- a. -9.4°C b. -26.1°C c. 26.1°C d. 9.4°C

15. A truck weighs 2.5 tons. Express this weight in pounds. (1 ton = 2,000 lb)
- a. 800 lbs b. 80 lbs c. 5,000 lbs d. 50,000 lbs
16. A child weighs 16.4 kilograms. Express his weight in decigrams.
- a. 164,000 dg b. 0.0164 dg c. 164dg d. 16,400 dg
17. A package weighs 70 kilograms. How much does the package weigh in pounds if 1 lb = 0.454 kg? Round your answer to the nearest tenth.
- a. 317.8 lbs b. 1,541.9 lbs c. 31.8 lbs d. 154.2 lbs
18. A certain brand of coffee sells at \$7.49 for 16 ounces. How much would you expect to pay for 50 ounces of this coffee? Round to the nearest penny.
- a. \$119.84 b. \$23.22 c. \$23.41 d. \$17.95
19. Determine whether the statement is a true proportion. $\frac{2.5}{8} = \frac{5}{16}$
- a. true b. false c. neither true or false
20. Solve the proportion. $\frac{3f-4}{8} = \frac{1}{4}$
- a. $\frac{1}{4}$ b. 2 c. $-\frac{2}{3}$ d. $-\frac{1}{2}$

21. Convert 4.62 meters to centimeters.
- a. 0.462 cm b. 46.2 cm c. 462 cm d. 4.62 cm
22. A graduate student can type a term paper containing 1,200 words in 32 minutes. How many words per minute did the student type? Round your answer to the nearest whole number.
- a. 37 word per min b. 32 word per min c. 384 word per min d. 38 word per min
23. Write the rate as a fraction in simplest form. \$25,000 paid over 6 years
- a. $\$4,166\frac{2}{3}\%$ b. $\frac{\$100,000}{24 \text{ years}}$ c. $\frac{\$25,000}{6 \text{ years}}$ d. $\frac{\$12,500}{3 \text{ years}}$
24. Convert 19 milliliters to liters.
- a. 1.9 L b. 0.019 L c. 0.19 L d. 0.0019 L
25. Convert 12,345 centimeters to hectometers.
- a. 1.2345 hm b. 123.45 hm c. 12.345 hm d. 123,450,000 hm