

Name

Key

Chapter 3 Test
Form A

Reduce each of the following fractions to lowest terms.

1. $\frac{16}{28} =$

$\frac{4}{7}$

2. $\frac{120abc}{50c}$

$\frac{12a}{5}$

Multiply:

3. $\frac{7}{10}(25x)$

$\frac{35x}{2}$

4. $\frac{16}{45} \cdot \frac{75}{18} \cdot \frac{27}{36} =$

$\frac{10}{9}$

Divide:

5. $\frac{15}{32} \div \frac{5}{16}$

$\frac{3}{2}$

6. $-\frac{5}{6} \div 15$

$-\frac{1}{18}$

Simplify problems 7 - 11.

7. $\frac{7}{10} - \frac{3}{10} = \frac{4}{10} =$

$\frac{2}{5}$

~~$\frac{1}{2}$~~

8. $\frac{7}{x} + \frac{2}{x}$

$\frac{9}{x}$

9. $-5 + \frac{3}{5}$

$-\frac{22}{5}$

10. $-\frac{4}{y} + \frac{1}{3} =$

$\frac{-12+y}{3y}$

11. $\frac{3}{8} + \frac{5}{6} + \frac{7}{12}$

$\frac{43}{24}$

12. Change $3\frac{2}{5}$ to an improper fraction.

$\frac{17}{5}$

13. Change $\frac{67}{7}$ to a mixed number.

$9\frac{4}{7}$

14. Add: $7 + \frac{5}{x} = \frac{7}{1} + \frac{5}{x}$

$\frac{7x+5}{x}$

Simplify problems 15 to 20.

15. $8 \div 2\frac{1}{4}$ $\frac{32}{9}$

16. $5\frac{1}{4} + 2\frac{7}{9}$ $\frac{289}{36}$

17. $4\frac{2}{7} - 1\frac{3}{28}$ $\frac{89}{28}$

18. $3 + 2\left(3\frac{1}{3}\right)$ $\frac{29}{3}$

19. $\left(2\frac{1}{10} + \frac{3}{5}\right)\left(2\frac{1}{2} - \frac{2}{3}\right)$ $\frac{99}{20}$

20. $\frac{\frac{5}{6} + \frac{7}{12}}{\frac{2}{5} - \frac{8}{15}}$ $\frac{-85}{8}$

21. If a basketball team missed $\frac{2}{3}$ of their 15 free throws in a game, how many free throws did they miss?

10 missed free throws

22. A board that was $95\frac{1}{8}$ inches long had a piece, $3\frac{5}{16}$ inches long, cut off from one end. What is the length of the board now?

$91\frac{13}{16}$ in

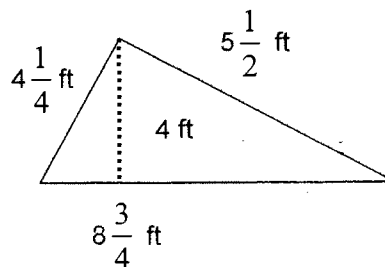
23. A recipe calls for $2\frac{3}{4}$ cups of flour. How much flour is needed if the recipe is tripled?

$8\frac{1}{4}$ cups

24. An inheritance of $12\frac{2}{3}$ million dollars is divided among 5 children. How much does each child get?

$\$2\frac{8}{15}$ million

25. Find the perimeter and the area of the triangle shown below.



Perimeter = $18\frac{1}{2}$ ft
 Area = $17\frac{1}{2}$ ft²

Name _____

Chapter 4 Test
Form A

1. Simplify: $10x - 4x + 4 - 9$

$$6x - 5$$

6. Solve: $x + 4 = 8$

$$x = 4$$

2. Simplify: $5(3x - 2) + 4(x + 5)$

$$19x + 10$$

7. Solve: $a + 7 - 2 = 4 - 6$

$$a = -7$$

3. Find the value of $4x - 12$ if $x = 5$.

$$8$$

8. Solve: $3x - 5x + 4x = 10$

$$x = 5$$

4. Find the value of $-x + 3$ if $x = -1$.

$$4$$

9. Solve: $4(b - 7) - 3b = -24$

$$b = 4$$

5. Is $x = 2$ a solution to $2x - 5 = 1$?

No

10. Solve: $-8y = -56$

$$y = 7$$

Name _____

Chapter 5 Test
Form A

1. Write the number 7,048 in words.
Seven and forty-eight thousands

2. Write twenty and one hundred forty-two thousandths as a decimal number.
20.142

3. Round 629.0498 to the nearest hundredth.
629.05

4. Change 0.005 to a fraction in lowest terms.
 $\frac{1}{200}$

5. Change $\frac{17}{200}$ to a decimal.
0.085

6. Give the place value of the 6 in 35.2061.
thousandths

Perform the indicated operations in numbers 7 to 14.

7. $0.26 + 1.058 + 7$
8.318

8. $9.758 - 15.022$
-5.264

9. $(3.44)(-0.045)$
-0.1548

10. $-8.942 \div (-3.4)$
2.63

11. $22.558 - 4(2.21 + 0.0422)$
13.5492

12. $6.2 - 4(0.16)$
5.56

~~13. $\frac{1}{8}(4.4 + 5.6)$
Don't Do~~

~~14. $\frac{1}{5}(7.5) + \frac{1}{3}(2.7)$
Don't Do~~

15. Solve: $0.4b + 2.2 = -3.6$

~~WAS 5.6~~
 $b = -14.5$

16. Solve: $5x - 0.123 = 2x - 5.4$

$$x = -1.759$$

17. If fresh salmon sells for \$7.95 per pound, how much will 4.4 pounds cost?

$$\$34.98$$

18. Emma has \$3.35 in nickels and quarters. She has seven more nickels than quarters. How many of each coin does she have?

10 quarters

17 nickels

19. John has 14 cats. His monthly cat food bill is \$159.88. How much does it cost him to feed one cat for a month?

$$\$11.42$$

