Exercise 14 Multiplying Fractions, Whole Numbers, and Decimals

Multiply a whole number by a fraction by rewriting the whole number as an improper fraction with 1 as the denominator. Then, multiply as usual.

Multiply. $\frac{2}{3} \times 13$	**Rewrite the whole as an improper fraction.**	$\frac{2}{3} \times \frac{13}{1}$
	Multiply.	$\frac{2}{3} \times \frac{13}{1} = \frac{26}{3}$
	Rewrite the improper fraction.	$\frac{26}{3} = 8\frac{2}{3}$

Multiply. Reduce your answer to lowest terms.

1. $\frac{1}{3} \times 9 =$ **2.** $\frac{4}{5} \times 11 =$ **3.** $\frac{8}{10} \times 20 =$ **4.** $\frac{5}{6} \times 18 =$

5. $12 \times \frac{3}{4} =$ **6.** $112 \times \frac{2}{3} =$ **7.** $\frac{2}{3} \times 90 =$ **8.** $\frac{1}{6} \times 30 =$

9. $\frac{2}{5} \times 100 =$ **10.** $45 \times \frac{3}{5} =$ **11.** $23 \times \frac{1}{2} =$ **12.** $\frac{5}{6} \times 40 =$

With money, cancel, multiply, and reduce as you would with whole numbers. The first one is done for you.

13. $\frac{1}{\cancel{2}_{1}} \times \frac{\overset{\$2.65}{\cancel{\$5.30}}}{1} = \frac{\$2.65}{1} = \$2.65$ **14.** $\frac{2}{3} \times \$27.51 =$ **15.** $\frac{7}{8} \times \$62.72 =$

16. $\frac{3}{4} \times \$125.60 =$ **17.** $\frac{1}{2} \times \$224.20 =$ **18.** $\frac{2}{5} \times \$455.75 =$

Solve.

19. Gwen is making crafts for a local craft show. She has 12 yards of material to make two wreaths. She needs to use $\frac{3}{4}$ of the material for the larger wreath and the rest for the smaller one.

How many yards of material should she use for the larger wreath? _____

Directions: Choose the one best answer to each item. Circle the number of the correct answer.

20. Gina has 15 reports to mail to the sales managers. She needs to mail $\frac{1}{3}$ of those reports to the West Coast. How many reports will Gina mail to the West Coast?

(1) 15
(2) 5
(3) 3
(4) 10
(5) 2

21. Danny has $120 in his savings account. He would like to use $\frac{1}{4}$ of it for a special purchase. How much money will Danny withdraw from his savings account?

(1) $120
(2) $300
(3) $3
(4) $12
(5) $30

22. Because Danny's purchase was on sale, he had $\frac{1}{4}$ of the money he withdrew left. How much money did he have left?

(1) $25.00
(2) $7.50
(3) $0.75
(4) $2.50
(5) $0.25

23. A farmer has 140 acres of land. He wants to devote $\frac{1}{2}$ of this land to growing corn. How much land will he use to plant corn?

(1) 50 acres
(2) 60 acres
(3) 52 acres
(4) 70 acres
(5) 280 acres

24. If this same farmer uses an additional $\frac{1}{4}$ of his land for growing pumpkins, how much land will be left for growing other things?

(1) 24 acres
(2) 23 acres
(3) 35 acres
(4) 70 acres
(5) 60 acres

25. Cindy spends 45 minutes driving to work. Harry spends $\frac{1}{3}$ of an hour driving to work. How much longer does Cindy spend driving to work?

(1) 5 minutes
(2) 10 minutes
(3) 15 minutes
(4) 20 minutes
(5) 25 minutes

26. A dog breeder currently has 12 puppies. She only wants to sell $\frac{2}{3}$ of the puppies. How many puppies will the breeder sell?

(1) 12
(2) 6
(3) 8
(4) 3
(5) 10

27. A real estate agent sold $\frac{2}{5}$ of the 35 homes in a new community. How many homes did the real estate agent sell?

(1) 35
(2) 30
(3) 15
(4) 14
(5) 7