# Chapter 9 Multiplication and Division of 3 and 4

#### **Exercise 1**

## **Basics**

1 Count by threes and complete the multiplication equations.



2 The sum of the digits in the products is \_\_\_\_\_, \_\_\_\_, or \_\_\_\_\_.

- 3 (a)  $3 \times 3$  is \_\_\_\_\_ more than  $2 \times 3$ .

(b)  $4 \times 3$  is 3 more than  $\_\_\_ \times 3$ .





- 4 × 3 =
- (c) 5 × 3 =

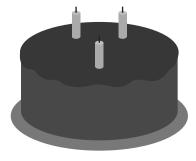
(d)  $9 \times 3 = 30 -$ 

4 Each cake has 3 candles.

How many candles are on 7 cakes?



candles are on 7 cakes.



- Circle products of 3.
  - 17
- 16
- 12
- 9
- 25
- 21
- 18

# **Basics**

















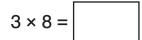




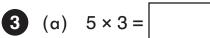
3	×	6	=

6 + 6 + 6 =











4 Match.

3 × 3

9

3 × 2

3 × 6

**( 18** )

3 × 5

10 × 3

**30** 

 $4 \times 3$ 

3 × 7

 $\langle \hspace{.1cm} \mathsf{3} \hspace{.1cm} \rangle$ 

3 × 10

2 × 3

( 12 )

( 8 × 3

3 × 8

 $\langle \quad \mathsf{6} \quad \rangle$ 

6 × 3

 $3 \times 4$ 

**24** 

3 × 3

9 × 3

**( 15** )

 $\langle 7 \times 3 \rangle$ 

5 × 3

**21** 

 $\langle 3 \times 9 \rangle$ 

1 × 3

**27** 

( 3×1

#### **Basics**

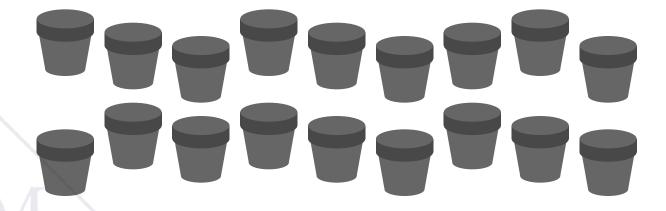
1 Dion is planting 3 tomato seeds in each jiffy pot. How many jiffy pots does he need for 24 seeds?



	× 3 = 24	groups of 3 is 24.
		<u> </u>

He needs \_\_\_\_\_ jiffy pots.

2 Sofia divided 18 jiffy pots equally onto 3 trays. How many pots did she put on each tray?



3 groups of \_\_\_\_\_ is 18.

She put \_\_\_\_\_ jiffy pots on each tray.





(a) 
$$\div 3 = 4$$

$$(d) \qquad \div 3 = 5$$

$$(f) \qquad \qquad \div 3 = 8$$

Avery, Dana, and Grace share a box of 12 colored pencils equally. How many pencils does each girl get?

Each girl gets \_\_\_\_\_ pencils.



6 There are 21 tennis balls.
Sharif puts 3 tennis balls in each can.
How many cans does he need?



He needs \_\_\_\_ cans.





7 Laila has a ribbon that is 9 feet long. She cuts it into 3 equal pieces. How long is each piece?



Each piece is \_\_\_\_\_ feet long.

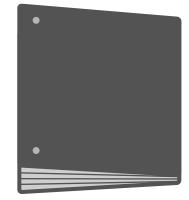


### **Challenge**

8 Caleb has 2 boxes with 6 markers in each box. He and two friends share them equally. How many markers does each boy get?

Each boy gets \_\_\_\_\_ markers.

Mariya has 20 photos and 3 pages in her album.
If she wants to put the same number of photos on each page, what is the least number of photos she will have left over?



She will have \_\_\_\_\_ photos left over.

Ryan is placing stakes 3 inches apart from each other.
The distance from the first to the last stake is 30 inches.
How many stakes has he placed?



He has placed \_\_\_\_\_ stakes.

#### Check

1 Add or subtract.

- 2 Write  $+, -, \times, \div$ , or = in each  $\bigcirc$ .
  - (a) 15 3 5

(b) 15 3 12

(c) 15 3 18

(d) 12 3 9

(e) 24 3 21

(f)  $21\bigcirc 3\bigcirc 7$ 

(g) 7 3 10

(h) 10 3 30

(i) 3 3 1

(j)  $3\bigcirc 3\bigcirc 6$ 

# **3** Multiply or divide.

2 × 5 = S	9 × 5 = N	6 × 3 = H
10 × 3 = R	15 ÷ 3 =	27 ÷ 3 = U
7 × 2 = R	10 ÷ 5 = E	3 × 2 = S
4 × 3 = N	3 × 7 = E	18 ÷ 1 = H
24 ÷ 3 = R	9 ÷ 3 =	8 × 2 = E
35 ÷ 5 =	5 × 10 =	20 ÷ 5 =

Write the letters that match the answers above to learn a fun fact.

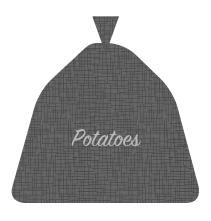
			h.										
	18	4	8	10	21	6	15	14	9	12	24	7	45
1													
\													
	11	50	18	16	3	30	27	5	4	2	6	19	36

4 3 bags of flour weigh 9 kilograms. How much does one bag of flour weigh?



One bag of flour weighs \_\_\_\_ kg.

**5** A bag of potatoes weighs 3 kilograms. How much do 9 bags of potatoes weigh?



9 bags of potatoes weigh \_\_\_\_ kg.

- 6 Arman can fit 15 pots equally onto 3 trays.
  - (a) How many pots go on each tray?

\_\_\_\_\_ pots go on each tray.

(b) How many trays are needed for 25 pots?

\_\_\_\_\_trays are needed for 25 pots.

#### **Challenge**

- **7** + + + = 12
  - + + + + = 14
  - + + =
- 8 There are 10 tricycles and bicycles in all.
  If there are 23 wheels, how many are bicycles and how many are tricycles?

There are \_\_\_\_\_ bicycles and \_\_\_\_\_ tricycles.

9 A piece of string is 20 ft long.

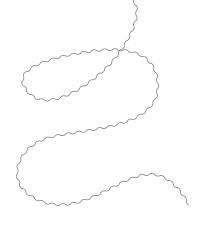
It is cut into as many pieces as possible that are each 3 ft long.

How many 3-ft long pieces are there?

How long is the left over piece of string?

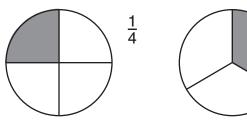


The left over piece of string is \_\_\_\_\_ ft long.



## **Basics**

**1** (a)



of the circle is larger than of the same size circle.

<u>1</u> 3

(b)

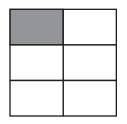


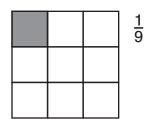
of the rectangle is larger than

<u>1</u>

of the same size rectangle.

**2** (a)

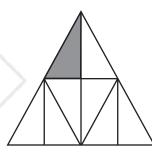


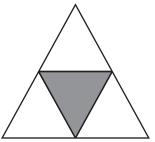


of the square is smaller than

of the same size rectangle.

(b)





of the triangle is smaller than



3 Color one part of each rectangle to show the given fraction.

Then use the rectangles to answer the problems below.

<u>1</u>										
<u>1</u>										
<u>1</u>										
<u>1</u> 8										
<u>1</u>										
<u>1</u>										
<u>1</u> 12										

- 4 Circle the largest fraction.
  - (a)  $\frac{1}{8}$   $\frac{1}{3}$   $\frac{1}{10}$

(b)  $\frac{1}{6}$   $\frac{1}{8}$   $\frac{1}{9}$ 

(c)  $\frac{1}{5}$   $\frac{1}{12}$   $\frac{1}{9}$ 

(d)  $\frac{1}{10}$   $\frac{1}{6}$   $\frac{1}{3}$ 

- **5** Circle the smallest fraction.
- (a)  $\frac{1}{8}$   $\frac{1}{6}$   $\frac{1}{12}$

(b)  $\frac{1}{6}$   $\frac{1}{3}$   $\frac{1}{9}$ 

(c)  $\frac{1}{5}$   $\frac{1}{8}$   $\frac{1}{9}$ 

(d)  $\frac{1}{10}$   $\frac{1}{6}$   $\frac{1}{5}$ 

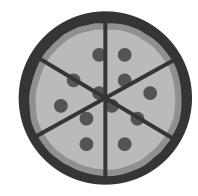
6 Write the fractions in order, beginning with the smallest.

$$\frac{1}{6}$$
  $\frac{1}{9}$   $\frac{1}{7}$   $\frac{1}{2}$   $\frac{1}{10}$ 

7 Write the fractions in order, beginning with the largest.

$$\frac{1}{4}$$
  $\frac{1}{12}$   $\frac{1}{5}$   $\frac{1}{8}$   $\frac{1}{11}$ 

8 Darryl ate <sup>1</sup>/<sub>6</sub> of a pizza.
His brother ate <sup>1</sup>/<sub>3</sub> of the same pizza.
Who ate less?

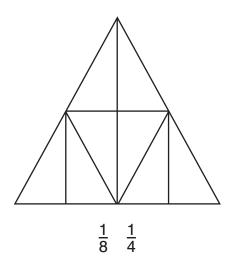


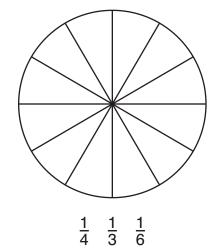
9 Fang painted  $\frac{1}{8}$  of a room, Debra painted  $\frac{1}{5}$  of the room, and Alice painted  $\frac{1}{3}$  of the room. Who painted the most?

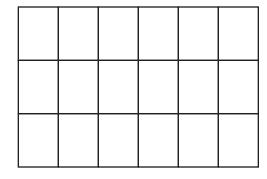
Wainani has finished reading about a third of her book. Has she finished more or less than half of her book?

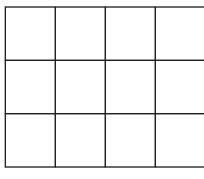
# **Challenge**

- 11 Use different colors to show each fraction.
  - The colored parts should not overlap.
  - Circle the largest fraction for each.









$$\frac{1}{6}$$
  $\frac{1}{18}$   $\frac{1}{6}$ 

$$\frac{1}{3}$$
  $\frac{1}{4}$   $\frac{1}{6}$   $\frac{1}{12}$ 

12 Is two-fourths of a shape larger than two-fifths of that same shape?

- 13 Circle the smaller fraction.
  - (a)  $\frac{2}{8}$   $\frac{2}{4}$

(b)  $\frac{2}{6}$   $\frac{2}{3}$