

1. a) Count by 3 five times.

3 6 9 12 15

b) Draw an array that matches your count-by.



2. a) Count by 5 three times.

5 10 15

b) Draw an array that matches your count-by.



3. Write multiplication sentences below to represent your arrays in problems 1 and 2. Use the commutative property to make the expression true.

$$\begin{array}{ccc} \underline{5} & \times & \underline{3} \\ \text{Problem 1} & & \end{array} = \begin{array}{ccc} \underline{3} & \times & \underline{5} \\ & & \text{Problem 2} \end{array}$$

4. Count by the unit (the number in word form) the number of times indicated. Write the multiplication sentence that matches your count by. The first one is done for you.

a) 2 threes: $2 \times 3 = 6$

d) 4 threes: $4 \times 3 = 12$

g) 3 nines: $3 \times 9 = 27$

b) 3 twos: $3 \times 2 = 6$

e) 3 sevens: $3 \times 7 = 21$

h) 9 threes: $9 \times 3 = 27$

c) 3 fours: $3 \times 4 = 12$

f) 7 threes: $7 \times 3 = 21$

i) 10 threes: $10 \times 3 = 30$

5. Find the unknowns that make the number sentences true. Then draw a line between facts that are equal.

a) $\overset{3}{\overbrace{3+3+3+3}} = \underline{12}$

d) $3 \times 8 = \underline{24}$

b) $3 \times 9 = \underline{27}$

e) $\underline{12} = 4 \times 3$

c) $\overset{8 \text{ threes}}{7 \text{ threes} + 1 \text{ three}} = \underline{24}$

f) $27 = 9 \times \underline{3}$

6. Isaac picks 3 tangerines from his tree every day for 7 days.

a. Use circles to draw an array that represents the tangerines Isaac picks.

○○○
○○○
○○○
○○○
○○○
○○○
○○○
xxx
xxx
xxx

b. How many tangerines does Isaac pick in 7 days? Write and solve a multiplication sentence.

$7 \times 3 = 21$ Isaac picks 21 tangerines in 7 days.

c. Isaac decides to pick 3 tangerines every day for 3 more days. Draw 'x's to show the new tangerines on the array in part A.

d. Write and solve a multiplication sentence to find the total number of tangerines Isaac picks.

$10 \times 3 = 30$ He picks 30 tangerines altogether.

7. Sarah buys bottles of soap. Each bottle costs \$2

a. How much money does Sarah spend if she buys 3 bottles of soap?

$$\underline{3} \times \underline{\$2} = \$\underline{6}$$

b. How much money does she spend if she buys 6 bottles of soap?

$$\underline{6} \times \underline{\$2} = \$\underline{12}$$