

Level 8
Unit 23.1 **Multiplying Positive and Negative Numbers Part I**

Time Taken: Total Score:

Read and understand.

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

$$(-3) \times 3 \times (-3) = 3 \times 3 \times 3 = 27$$

$$(-3) \times 3 \times (-3) \times (-3) = -(3 \times 3 \times 3 \times 3) = -81$$

$$(-3) \times 3 \times (-3) \times (-3) \times (-3) = 3 \times 3 \times 3 \times 3 \times 3 = 243$$

Note: If number of '-' signs is odd (1,3,5.....), the product is negative.
 If number of '-' signs is even (2,4,6.....), the product is positive.

1. Write 1 or -1 in the circles below.

a. $(-1) \times (-1) =$

b. $(-1) \times (-1) \times (-1) =$

c. $(-1) \times (-1) \times (-1) \times (-1) =$

d. $(-1) \times (-1) \times (-1) \times (-1) \times (-1) =$

e. $(-1) \times 1 \times (-1) \times (-1) \times -1 \times (-1) =$

f. $(-1) \times 1 \times (-1) \times (-1) \times (-1) \times (-1) \times (-1) =$

g. $(-1) \times 1 \times (-1) \times (-1) \times (-1) \times 1 \times (-1) =$

h. $(-1) \times 1 \times (-1) \times (-1) \times (-1) \times (-1) \times (-1) \times (-1) \times (-1) =$

i. $(-1) \times 1 \times (-1) \times 1 \times (-1) \times 1 \times (-1) \times 1 \times (-1) \times 1 =$

2. Calculate the following.

a. $(-4) \times (-9)$

j. $(-3) \times 4 \times (-\frac{1}{9})$

b. $(-\frac{1}{2}) \times (\frac{1}{5})$

k. $(-5) \times (-\frac{1}{2}) \times 0 = 0$

c. $(-\frac{2}{3}) \times 6\frac{1}{2}$

l. $7 \times (-2) \times (-\frac{1}{14})$

d. $(-9) \times \frac{5}{6}$

m. $(-1\frac{1}{5}) \times (\frac{1}{5}) \times (-3)$

e. $(-3\frac{1}{2}) \times (-2\frac{1}{5})$

n. $5 \times (-4) \times (-\frac{1}{10})$

f. $(-5\frac{1}{4}) \times (-2\frac{1}{6})$

o. $\frac{3}{14} \times (-10) \times 7$

g. $(3\frac{1}{2}) \times (-3\frac{1}{4})$

p. $(-\frac{1}{2}) \times (-\frac{1}{2}) \times (-\frac{1}{2})$

h. $(-4) \times 1 \times (-5)$

q. $(-8) \times (-3\frac{1}{8}) \times \frac{2}{5}$

i. $(-4) \times (-4) \times (-4)$

r. $(-10\frac{1}{2}) \times 2\frac{1}{4} \times (-2\frac{2}{5})$