

Maths

# Multiply and divide directed numbers

Mr Lund



# Multiply and divide directed numbers

1. Complete the sequence of multiplications.

$$-3 \times 3 = -9$$

$$-3 \times 2 =$$

$$-3 \times 1 =$$

$$-3 \times 0 =$$

$$-3 \times -1 =$$

$$-3 \times -2 =$$

$$-3 \times -3 =$$

2. Work out the multiplications.

a)  $-5 \times 11$

b)  $-11 \times 5$

c)  $-5 \times -11$

d)  $-11 \times -5$

3. Fill in the blanks.

a)  $-4 \times \square = 12$

b)  $\square \times -2 = -10$

c)  $-7 \times \square = -21$

d)  $\square \times -3 = 24$



# Multiply and divide directed numbers

4. Use the fact that  $-3 \times -4 = 12$  to fill in the blanks.

$$12 \div -4 = \square \quad \square \div -3 = -4$$

5. Complete the calculations.

- a)  $15 \div -5$
- b)  $-15 \div -5$
- c)  $15 \div -3$
- d)  $-15 \div 3$
- e)  $-15 \div -3$

6. Arrange the cards in ascending order of value.

$6 \div -3$

$-2 \times -3$

$12 \div -2$

$12 \times -2$

$12 \div 6$

7. Which card does not belong?

$20 \div -5$

$-7 + 3$

$-12 \div -3$

$-2 \times 2$

$4 \div -1$

$-7 - -3$



# Answers



# Multiply and divide directed numbers

1. Complete the sequence of multiplications.

$$-3 \times 3 = -9$$

$$-3 \times 2 = -6$$

$$-3 \times 1 = -3$$

$$-3 \times 0 = 0$$

$$-3 \times -1 = 3$$

$$-3 \times -2 = 6$$

$$-3 \times -3 = 9$$

2. Work out the multiplications.

$$\text{a) } -5 \times 11 = -55$$

$$\text{b) } -11 \times 5 = -55$$

$$\text{c) } -5 \times -11 = 55$$

$$\text{d) } -11 \times -5 = 55$$

3. Fill in the blanks.

$$\text{a) } -4 \times -3 = 12$$

$$\text{b) } 5 \times -2 = -10$$

$$\text{c) } -7 \times 3 = -21$$

$$\text{d) } -8 \times -3 = 24$$



# Multiply and divide directed numbers

4. Use the fact that  $-3 \times -4 = 12$  to fill in the blanks.

$$12 \div -4 = -3$$

$$12 \div -3 = -4$$

5. Complete the calculations.

a)  $15 \div -5 = -3$

b)  $-15 \div -5 = 3$

c)  $15 \div -3 = -5$

d)  $-15 \div 3 = -5$

e)  $-15 \div -3 = 5$

6. Arrange the cards in ascending order of value.

$$6 \div -3$$

3rd

$$-2 \times -3$$

5th

$$12 \div -2$$

2nd

$$12 \times -2$$

1st

$$12 \div 6$$

4th

7. Which card does not belong?

$$20 \div -5$$

$$-7 + 3$$

$$-12 \div -3$$

$$-2 \times 2$$

$$4 \div -1$$

$$-7 - -3$$

