

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) -5×11

b) -11×5

c) -5×-11

d) -11×-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.

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

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

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

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



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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?

$$20 \div -5$$

$$-7 + 3$$

$$-12 \div -3$$

$$-2 \times 2$$

$$4 \div -1$$

$$-7 - -3$$

