

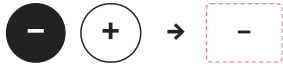
Multiplying and Dividing Negative Numbers

ANSWERS

1

Work out -4×6

are the signs the same or different?



the numbers

$$4 \times 6 = 24$$

Answer -24

2

Work out -3×-5

are the signs the same or different?



the numbers

$$3 \times 5 = 15$$

Answer 15

3

Work out 7×-2

are the signs the same or different?



the numbers

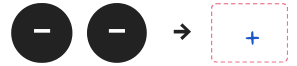
$$7 \times 2 = 14$$

Answer -14

4

Work out -8×-4

are the signs the same or different?



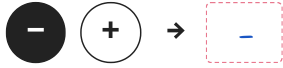
the numbers

$$8 \times 4 = 32$$

Answer 32

5

Work out $-20 \div 5$



$$20 \div 5 = 4$$

Answer -4

6

Work out $-36 \div -9$



$$36 \div 9 = 4$$

Answer 4

7

The temperature falls by 3°C every hour. Write the change after 5 hours as a calculation and work it out.

-3×5
Answer -15°C

8

Two numbers multiply to make -24 . One of them is 6. What is the other?

$-24 \div 6$
Answer -4

Multiplying and Dividing Negative Numbers further practice

ANSWERS

9

Work out

$$-63 \div -9$$

signs the same, $63 \div 9 = 7$

Answer 7

10

Complete the multiplication grid.

$\times$	-3	5
-4	12	-20
6	-18	30

11

Which is bigger, -5×4 or $-36 \div 2$? Show how you know.

-20 and -18 , -18 is nearer to 0
Answer $-36 \div 2$

12

Find the missing number.

$$-24 \div -4 = 6$$

6×-4

13

A submarine starts at the surface of the sea. It goes down to a height of -120 m in 6 equal stages. Write the change in height for each stage as a negative number.

$$-120 \div 6$$

Answer -20 m

14

In a quiz, a right answer scores 3 points and a wrong answer scores -2 points. Mo gets 3 answers right and 6 answers wrong. What is his total score?

$$3 \times 3 = 9, 6 \times -2 = -12, 9 - 12$$

Answer -3

15

The temperature at midnight on four nights was -3°C , -5°C , 2°C and -6°C . Work out the mean temperature.

$$-3 - 5 + 2 - 6 = -12, -12 \div 4$$

Answer -3°C

16

Kim says that when you multiply three negative numbers the answer is positive, because two negatives make a positive. Is Kim right? Explain, using $-1 \times -2 \times -3$

$$-1 \times -2 = 2, \text{ then } 2 \times -3 = -6$$

Answer No, $-1 \times -2 \times -3 = -6$