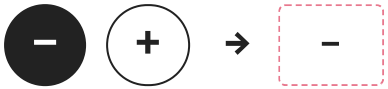
Multiplying and dividing negative numbers

ANSWERS

1

Work out -5×3

are the signs the same or different?



the numbers

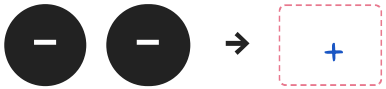
$5 \times 3 =$ 15

Answer −15

2

Work out -6×-4

are the signs the same or different?



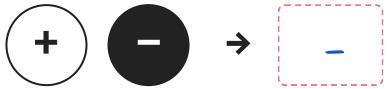
the numbers

$6 \times 4 =$ 24

Answer 24

3

Work out 8×-3

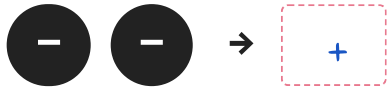


$8 \times 3 =$ 24

Answer −24

4

Work out -9×-7

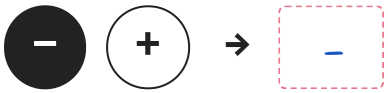


$9 \times 7 =$ 63

Answer 63

5

Work out $-56 \div 8$



$56 \div 8 =$ 7

Answer −7

6

Work out $-2 \times -5 \times -3$

count the negatives



odd or even? so the sign is

odd → −

the numbers

$2 \times 5 \times 3 =$ 30

Answer −30

7

Work out $(-6)^2$

$(-6)^2 = -6 \times -6$

−6 × −6, same signs

Answer 36

8

Find the missing number.

$-40 \div$ −5 $= 8$

−40 ÷ 8, check: −40 ÷ −5 = 8

Answer −5

Multiplying and dividing negative numbers *further practice*

ANSWERS

9

Work out

$$-72 \div -9$$

signs the same, 72 ÷ 9 = 8

Answer 8

10

Without working them out, write **positive** or **negative** for each answer.

−7 × 8	negative
−9 × −3	positive
40 ÷ −5	negative
−2 × −2 × −2	negative

11

Complete the pattern.

$$3 \times -4 = -12$$
$$2 \times -4 = -8$$
$$1 \times -4 = -4$$
$$0 \times -4 = 0$$
$$-1 \times -4 = 4$$
$$-2 \times -4 = 8$$

each answer is 4 more

12

In a board game, every red card is worth −5 points. Ava has 4 red cards. How many points are her red cards worth altogether?

4 × −5

Answer −20 points

13

Two numbers multiply to make 15 and add to make −8. What are the two numbers?

−3 × −5 = 15, −3 + −5 = −8

Answer −3 and −5

14

Which is bigger, $(-5)^2$ or -5×5? Show how you know.

$(-5)^2 = 25$, $-5 \times 5 = -25$

Answer $(-5)^2$

15

A café makes a loss of £12 on each of 5 weekdays and a profit of £25 on each of 2 weekend days. Work out its total profit for the week. Use a negative number for a loss.

5 × −12 = −60, 2 × 25 = 50

Answer −£10

16

Amir says −2 × −3 × −4 × −5 is positive, without working it out. Is he right? Explain how he knows.

4 negatives, an even number

Answer Yes, it is 120