

76. Negative Numbers (+, -, x, ÷)

Practice Questions:

1. Calculate: -3×4

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

3. Solve: $48 \div -4 \div -2 \div 3$

4. Calculate: -6×-2

5. Work out: $-10 \div 2 \times -3 \times -2$

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Practice Questions:

6. Solve: $-7 + 12$

7. Work out: $15 - 20 + -5$

8. Calculate: $-8 - 6 + 10 - -4$

9. Work out: $-3 + -9$

10. Solve: $25 - -11 + -7$

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Scenario Questions: Give answers up to 2 decimal places

1. A diver's depth is recorded as a negative number. Each minute he descends 5 metres, so the change is -5. After 6 minutes, what value should be recorded?

2. A football team is given a penalty of -3 points for breaking the rules. If this happens four times, what value should be recorded for the team's total penalties?

3. A factory produces 12 faulty parts in one hour. This data is input into the monitoring system as -12. If the factory produces 12 faulty parts per hour for 3 hours, what value should be input into the system?

4. A submarine records each dive as -30 metres. If it descends a total of -120 metres, how many dives does this represent?

5. A bank shows a debt of -£240. The debt is shared equally between 4 family members. What value should be recorded for each person's share?

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Scenario Questions:

6. The temperature is -4°C in the morning. It drops by 7°C during the day. What is the new temperature?

7. A lift starts at floor 0. It goes down 6 floors, then up 3 floors. What floor does it finish on?

8. A football team has -2 points after a penalty. They then lose another 5 points. What is their new points total?

9. A bank account is at $-\text{£}80$. $\text{£}50$ is paid in. What is the new balance?

10. A rocket drops 60 m, then rises 25 m, then drops another 10 m. What is its total change in height?

ANSWERS

Topic 76. Negative Numbers

Practice Questions:

1. -12
2. -30
3. 2
4. 12
5. -30

6. 5
7. -10
8. -8
9. -12
10. 29

Scenario Questions:

1. -30 m
2. -12 points
3. -36
4. 4 dives
5. -£60

6. -11°C
7. -3
8. -7
9. -£30
10. -45 m

Verify Answers