Rational numbers: position, opposites and absolute value

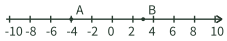
Year 7, upper volume • text pp. 1–14 • foundation lessons 1–7 • 1/2

Name: _____ Class: _____ Date: _____

Worked example 1

A is at −4 and B at 3. Find their distance in units and explain why adding the signed coordinates is wrong.

$$3 - (-4)$$



Geometry diagram; not drawn to scale except for construction tasks.

Guided attempt 2

Find the absolute value of −6. Explain why a distance cannot be negative.

1. Write the relevant rule or relation: _____.
2. Show an intermediate line: _____.
3. State the answer and check it: _____.

Prerequisite 3

Is 0 a positive number? Explain your classification.

Prerequisite 4

Taking a gain as positive, write the signed amount for a loss of 12 dollars.

Rational numbers: position, opposites and absolute value

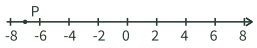
Year 7, upper volume • text pp. 1–14 • foundation lessons 1–7 • 2/2

Name: _____ Class: _____ Date: _____

Independent practice 5

Write the opposite of −7 and explain its position relative to 0.

$$-(-7)$$



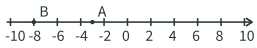
Geometry diagram; not drawn to scale except for construction tasks.

Independent practice 6

Find the absolute value of −9. Explain why a distance cannot be negative.

Independent practice 7

Which is greater, −3 or −8? Calculate the greater number minus the smaller one.



Geometry diagram; not drawn to scale except for construction tasks.

Independent practice 8

A learner calls −3/4 an integer because it has a minus sign. Is the claim valid? Classify the number correctly.

Exit question 9

Start with −5 and take the opposite twice. What number do you obtain? Explain the two reversals.

$$-(-(-5))$$

Exit question 10

Find the absolute value of 0. Explain why a distance cannot be negative.