

Y7H U5 Negative numbers. Knowledge Organiser

The absolute value of a number is its distance from zero

When adding a negative value translate to the left along a number line

Add to a number using a negative addend

Complete the calculations

a) $11 + (-7) = 4$

b) $-9 + (-6) = -15$

Subtract from a number using a negative subtrahend

Complete the calculations

a) $14 - (-9) = 23$

b) $-18 - (-13) = -5$

Multiply and divide using two negative numbers

Complete the calculations

a) $-12 \times (-6) = 72$

b) $-42 \div (-7) = 6$

Calculate using order of priority involving negative numbers

Complete the following calculations

a) $5 + 8 \times (-3) = -19$

b) $11 - (-10) \div (-5) = 9$

c) $-4 \times 18 \div (-6) = 12$

Calculate using negative decimal fractions

Complete the following calculations

a) $60 \times (-0.1) = -6$

b) $-25 \div (-0.01) = 2500$

c) $-3 \times (-0.0001) = 0.0003$

Understand that division is equivalent to multiplying by the reciprocal

Complete the gaps in the following calculations

a) $36 \div 6 = 36 \times \frac{1}{6}$

b) $7 \div \frac{1}{4} = 7 \times 4$

c) $12 \times \frac{1}{3} = 12 \div 3$

d) $16 \div \frac{3}{4} = 16 \times \frac{4}{3}$

Hegarty

Add/subtract 39-40

Multiply/divide 42-43

Order of operations 44

Using reciprocal 71