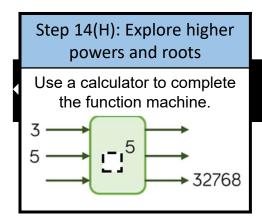
Year 7 Mathematics Learning Journey: Unit 9 - Directed Number



Step 13(H): Understand square roots

Between which integer values would $\sqrt{45}$ lie?

Step 12: Use order of operations

Calculate $(-6)^2 + 14 \times 2$

Step 11: Solve twostep equations

Solve 8 - $\frac{x}{2}$ = 3

Steps 6 and 7: Multiplication and division of directed numbers

Why is $-3 \times 5a$ equal to $3 \times -5a$? What other calculations give the same answer?

Step 8: Using a calculator for directed number

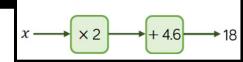
What is the difference between -2.32 and $(-2.3)^2$

Step 9: Evaluate algebraic expressions

Substitute x = 3 and y = -5 into the expression $X - V^2$

Step 10: Introduction to two-step equations

Write and solve an equation for the function machine.



Steps 4 and 5: Add and subtract directed numbers

Give an example to show the statement "two negatives make a positive" is wrong.

Step 3: Perform calculations that cross zero

Simplify the expression -3m + 8m

Step 2: Order directed numbers

Between which two consecutive integers does -1.5 lie?

Step 1: Representations of directed numbers

How far is -3 from zero? How far is 3 from zero? What do you notice?



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