

Negatives

Here are a selection of negatives questions, in reality these are merely the start, use the "Test Yourself" sheets from Sharepoint over time to improve.

1) $-2 + 7$ 2) $5 + -2$ 3) $-4 + -3$ 4) $-8 - 2$

5) $4 - -5$ 6) $-6 + -2$ 7) $-10 + 4$ 8) $-9 - -3$

9) $-9 - -13$ 10) $-8 + -3$ 11) -2×6 12) -8×-9

13) 8×-4 14) $24 \div -3$ 15) $-40 \div 5$ 16) $-72 \div -8$

17) $2 \times -3 \times -5 \times -8$ 18) $\frac{-2 + -8}{-5}$

19) The temperatures of 6 cities are given below;

London 0°C Calgary -12°C Boston -3°C

Paris 3°C Dortmund -8°C Rome 21°C

- What is the coldest city?
- How much warmer is Boston than Dortmund?
- The temperature of Boston rose by 8°C , what is it now?

Ans

1) 5 2) 3 3) -7 4) -10 5) 9 6) -8 7) -6 8) -6 9) 4 10) -11 11) -12 12) 72
13) -32 14) -8 15) -8 16) 9 17) -240 18) 2 19a) Calgary b) 5 c) 5°C

Algebra

1) Simplify fully

a) $2x + 5x - x$ b) $5x \times 8$ c) $4x \times 7x$

d) $2x + 3y + 5x - y$ e) $3x - 5y - 6x + 8y$ f) $\frac{12y}{4}$

2) If $x = 4$ $a = -2$ $b = 6$ $t = -1$
find:

a) $xa - t$ b) $\frac{x}{a} + b$ c) $b + 2a$

3) Solve for x

a) $2x - 1 = 6$

b) $\frac{x}{7} = 8$

c) $5x + 1 = 16$

d) $\frac{x}{3} - 1 = 2$

e) $2x - 1 = 5x - 7$

f) $8x - 1 = 3x + 7$

g) $3x + 5 = 2x + 1$

h) $-3 = 7 + 2x$

i) $2 = 5x + 8$

j) $5 - 2x = 3x - 1$

k) $8 - x = 11 - 3x$

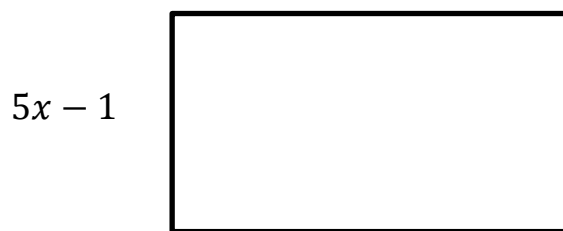
4) Jess is 3 years younger than Erin, who is twice as old as Sophie.

The total of their ages is 33. Form an equation to find out how old they are.

5) The perimeter of the following rectangle is 90cm.

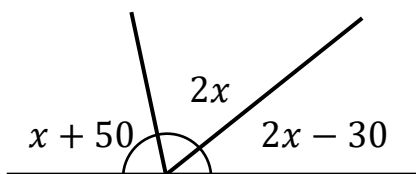
Form an equation to find x

$3x + 6$

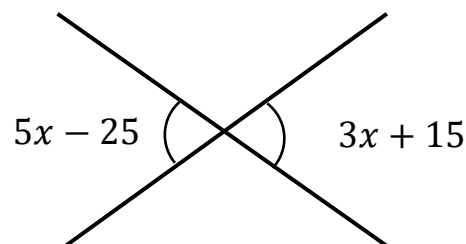


6) Find x

a)



b)



Answers

1) $6x$ b) $40x$ c) $28x^2$ d) $7x + 2y$ e) $-3x + 3y$ f) $3y$ 2a) -7 b) 4 c) 2 3a) $\frac{7}{2}$

b) 56 c) 3 d) 9 e) 2 f) $\frac{8}{5}$ g) -4 h) -5 i) $-\frac{6}{5}$ j) $\frac{6}{5}$ k) $\frac{3}{2}$ 4) $6, 9, 18$ 5) 5 6a) 32 b) 20