Forming Expressions
Video 16 on Corbettmaths

Workout

Question 1: Write an algebraic expression for each of the following

(a) 4 more than c (b) 2 lots of a (c) 3 less than b (d) m divided by 5

(e) 7 multiplied by s (f) w subtract 1 (g) e squared (h) y add 9

(i) m shared between 3 (j) 10 times x (k) k less than 8 (m) 12 less than g

Question 2: Write an algebraic expression for each of the following

(a) c add p (b) f minus m (c) a times b (d) p divided by z

(e) b taken away from u (f) k add n add r (g) w less than c (h) l multiplied by m

(i) y multiplied by m multiplied by a

Question 3: Write an algebraic expression for each of the following

(a) m multiplied by 2 and then add 3 (b) h divided by 4 and then add 7

(c) p squared and then add 10 (d) t add 2 and then multiplied by 5

(e) 9 times e and then add 1 (f) h divided by 3 then add 1

(g) m subtract 6 and then divided by 3 (h) y squared and then multiplied by 4

(i) k multiplied by 4 and then squared (j) a squared and then multiplied by b

Apply

Question 1: An orange costs y pence, an apple costs z pence and a banana costs 17 pence. Write an expression for the total cost of:

(a) 3 oranges (b) 5 apples (c) 2 oranges and 3 apples

(d) 2 apples and 1 banana (e) m bananas (f) 3 oranges and 3 bananas

(g) 20 apples, 10 oranges and 2 bananas (h) 4 oranges, 3 apples and n bananas

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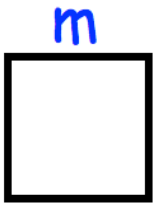
Question 2: A taxi driver charges £m per mile.
Write an expression for the total cost of:

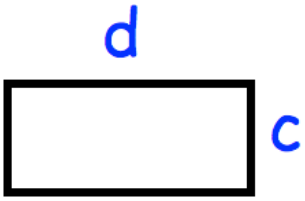
(a) A 2 mile journey (b) A 15 mile journey (c) A journey of x miles

Question 3: Write an expression for the perimeter of each shape below.

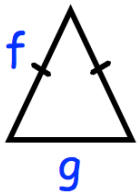
(a)



(b)



(c)



Question 4: Alan is y years old and has 8 sisters.
Write an expression for how old each sister is.

(a) Beth is 3 years old than Alan.
(b) Clara is 2 years younger than Alan.
(c) Donna is three times Alan's age.
(d) Emma is half Alan's age.
(f) Fiona is two years younger than Donna.
(g) Georgia is twice Beth's age.
(h) Hannah is 4 years older than Fiona.
(i) Isabelle is three times Emma's age.

Question 5: Guy, Eric and Luke go Christmas shopping.
Write an expression for how much money each man has left after shopping.

(a) Guy hasd £20 and spends £y on presents.
(b) Eric had £m and spends £12 on presents.
(c) Luke had £a and spends £b on presents.

Question 6: A TV costs £x. A DVD player costs £45 less than the TV.
Write an expression for the total cost of the TV and DVD player.

Question 7: A plumber charges £15 per hour plus a £y initial callout charge.
Write an expression for the total cost of:

(a) A job lasting 3 hours (b) A job lasting 8 hours (c) A job lasting n hours