

Video 115

Answers

Workout:

Question 1:

a) $3x+5=29$

b) $x=8$

Question 2:

a) $5x-2=58$

b) $x=12$

Question 3:

a) $\frac{x}{2} + 1 = 7$

b) $x = 12$

Question 4:

a) $x + x + 2 = 40$ or $2x + 2 = 40$

b) $x = 19$ so Gregory is 19, and Daisy is 21

Question 5:

a) $x + x - 7 = 61$ or $2x - 7 = 61$

b) $x = 34$ so Robert is 34 and Hannah is 27

Question 6:

- a) $x + 2x = 57$ or $3x = 57$
- b) $x = 19$ so Michael is 19 and Jenny is 38

Question 7:

- a) $x + x + 3 + 2x = 51$ or $4x + 3 = 51$
- b) $x = 12$ so Fiona is 12, Thomas is 15 and Cara is 24

Question 8:

- a) $x + x - 10 + 2x = 54$ or $4x - 10 = 54$
- b) $x = 16$ so Alan is 16, Barry is 6 and Kevin is 32

Question 9:

- a) $x + x + 8 + 3(x + 8) = 67$ or $5x + 32 = 67$
- b) $x = 7$ so Rebecca is 7, Mary is 15 and Jill is 45

Question 10:

- a) $x + x + 7 + x - 9 = 148$ or $3x - 2 = 148$
- b) $x = 50$ so Andy has 50p, Kelly has 57p and Georgia has 41p

Question 11:

- a) $x + 2x + 6x = 180$ or $9x = 180$
b) $x = 20$ so Billy has £20, Liam has £40 and Nicola has £120

Question 12:

- a) $x + x + 100 + 2x = 2500$ or $4x + 100 = 2500$
b) $x = 600$ so Jones has 600, Smith has 700 and White has 1200

Question 13:

- a) $x + x - 45 = 235$ or $2x - 45 = 235$
b) $x = 140$ so TV costs £140, DVD player costs £95

Question 14:

- a) $x + x + 1 + x + 2 = 51$ or $3x + 3 = 51$
b) $x = 16$ so the numbers are 16, 17 and 18

Question 15:

- a) $x + x + 1 + x + 2 + x + 3 + x + 4 = 110$ or $5x + 10 = 110$
b) $x = 20$ so the numbers are 20, 21, 22, 23 and 24

Question 16:

- a) $x + x + 7 + x + x + 7 = 106$ or $4x + 14 = 106$
 $x = 23$ so the field is 23m x 30m,
b) Area = 690m^2

Question 17:

- a) $x + x + 20 + x + x + 20 = 280$ or $4x + 40 = 280$
 $x = 60$ so the field is 60m x 80m
b) Area = 4800m^2