11 Solve the equation $5y + 4 = 24$

SWAP SIDES

OPPOSITE BUBBLES

$(-4) \quad (-4)$

$5y = 20$

$(\div 5) \quad (\div 5)$

$y = 4$

Answer $y = 4$ [2]

15

P

$70°$

diagram not drawn
accurately

isosceles
triangle

angles
in tri.
add to $180°$

x 55   55 x y

Q   R   S

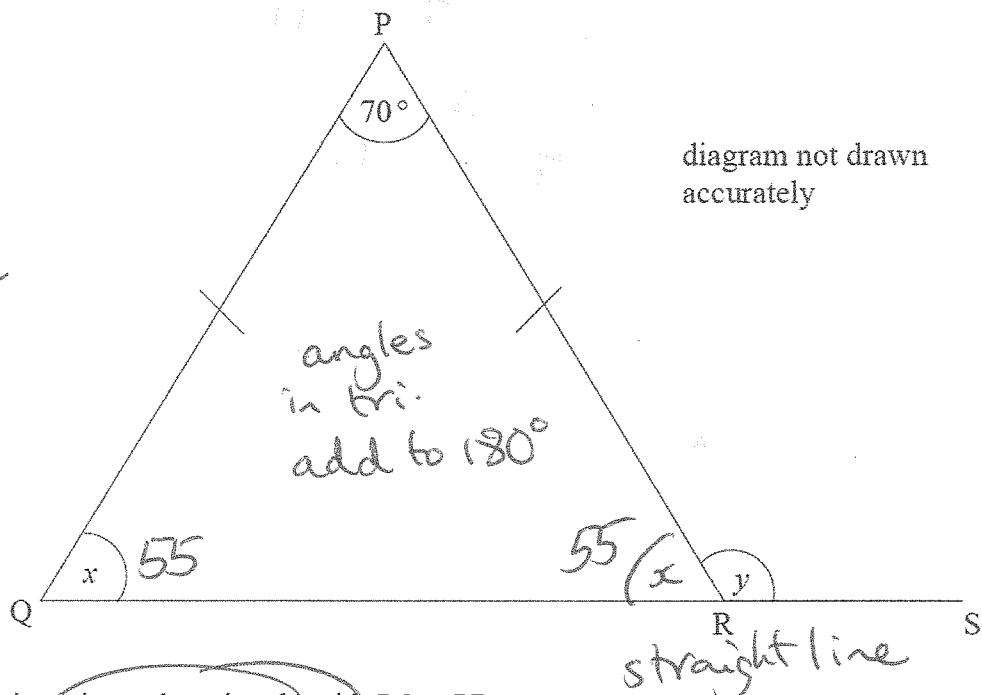straight line

PQR is an isosceles triangle with PQ = PR.
QRS is a straight line.

(a) Work out the size of the angle marked x.

Both same at bottom feet of the triangle

$180 - 70$

$= 110$ then $\div$ by 2

Answer 55 °[2]

(b) Work out the size of the angle marked y.

$55 + y = 180$

Answer 125 °[1]

26 (a) 80 Cable TV customers were asked whether they had a subscription for
Cable Cinema, Cable Box Sets or Cable Sports.
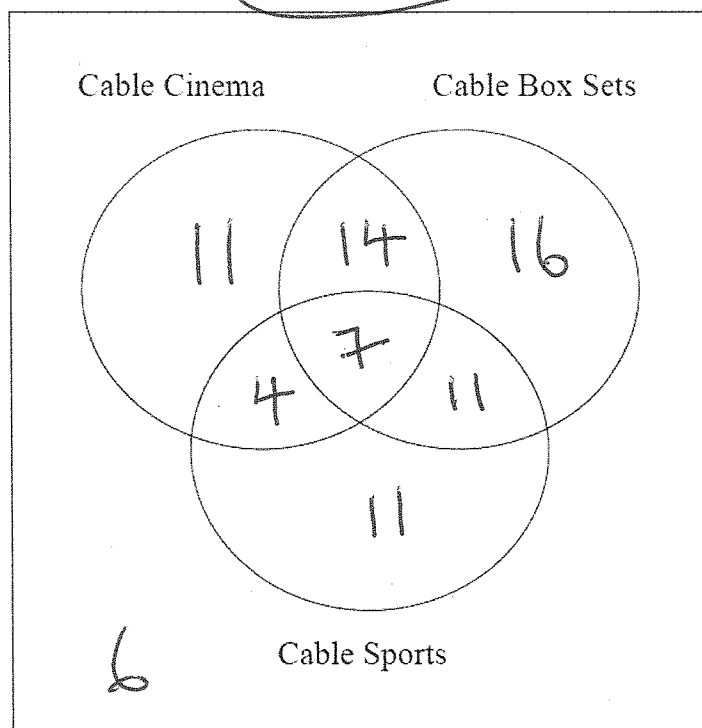
7 had subscriptions to all 3
11 had Cable Box Sets and Cable Sports, but not Cable Cinema
14 had Cable Box Sets and Cable Cinema, but not Cable Sports
11 had Cable Cinema and Cable Sports

Show this information on the Venn diagram. [2]

Cable Cinema   Cable Box Sets

11   14   16

4   7   11

11

6   Cable Sports

(b) 36 had a subscription for Cable Cinema
48 had a subscription for Cable Box Sets
33 had a subscription for Cable Sports

Show this information on the Venn diagram. [1]

(c) How many of the customers asked did not have any subscriptions?

80 — all the numbers in the 3 circles

80 — 74

Answer ___6___ [2]