



21. The original price of a duvet is £190 in a departmental store. The store decides to reduce all prices by 35%.

(a) What is the price of the duvet in the sale? (3)

(b) The store decides to reduce prices by a further 10%. What is the price of the duvet now? (2)

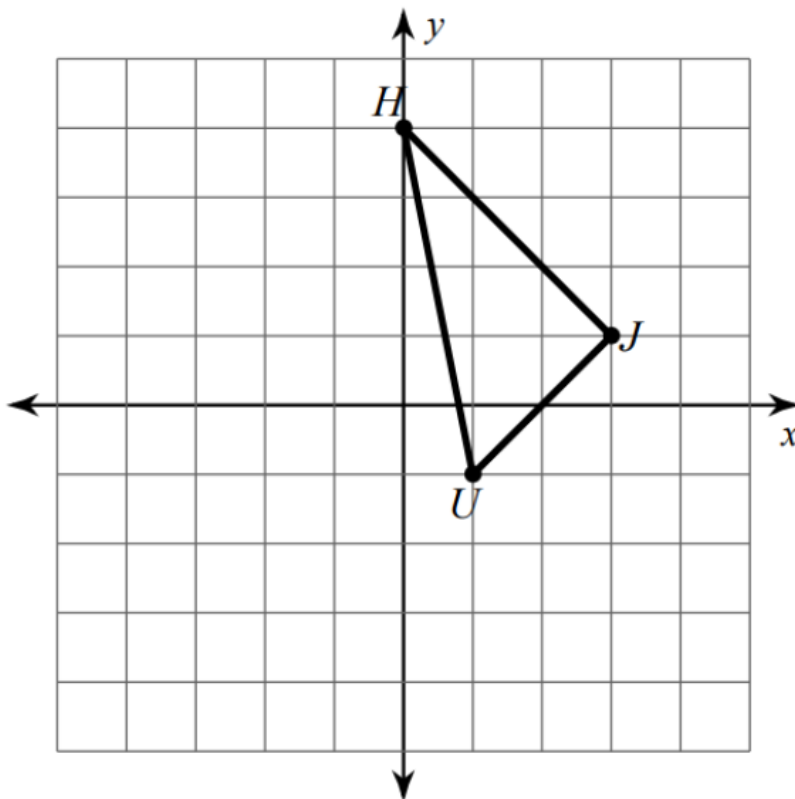
22. Simplify the following expressions:

(a) $4(2x - 3)$ (2)

(b) $3x^4 \times 9x^3$ (2)

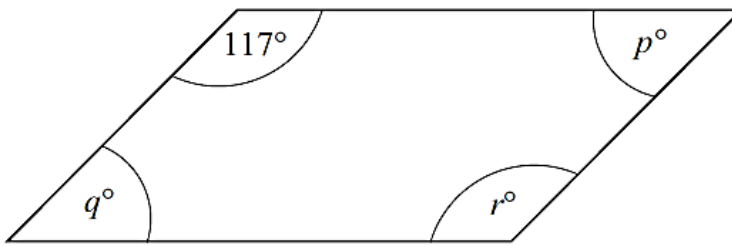
(c) $27g^3 \div 3$

23. Translate 2 units down, 5 units left.



(2)

24. The diagram shows a parallelogram.



NOT TO SCALE

Find the values of p , q and r .

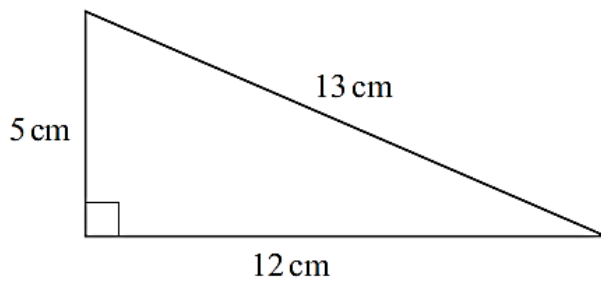
$p =$

$q =$

$r =$

[2]

25. Here is a triangle.



NOT TO SCALE

Samira tries to calculate the area of this triangle. Here is her working and answer.

$$5 \times 13 = 65$$

$$65 \div 2 = 32.5$$

Answer 32.5 cm

Describe two errors she has made.

Error 1

Error 2

[2]

26. Work out.

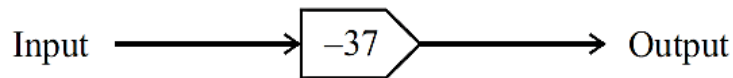
$$4 \div 10^2$$

..... [1]

27. Write 8% as a decimal.

..... [1]

28. Here is a function machine.



(a) Find the output when the input is 21

..... [1]

(b) Find the input when the output is -20

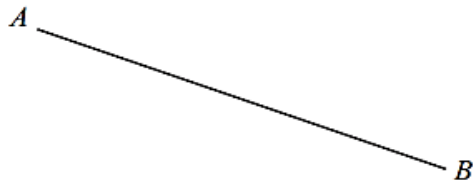
..... [1]

29. Draw a ring around **each** number that is a common factor of 30 and 75

5 15 25 75

[1]

30. Draw a line that is perpendicular to the line AB .



[1]

Here are the first four terms in a sequence.

$-22, -17, -12, -7, \dots$

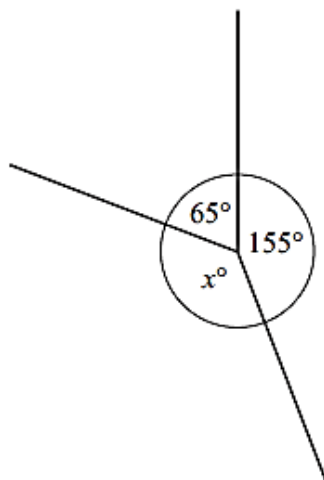
31. Complete these sentences.

The next **two** terms in the sequence are and

The term-to-term rule for the sequence is

[2]

32. The diagram shows three lines meeting at a point.



NOT TO
SCALE

Find the value of x .

$x = \dots\dots\dots$ [1]