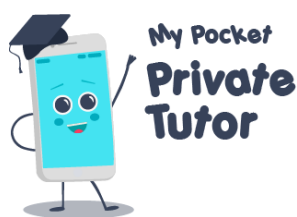# MATH COMPREHENSION

masterclass
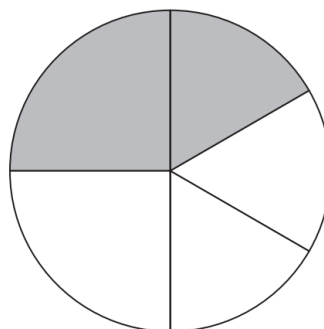
Week 4

MATH COMPREHENSION masterclass

23 In this circle, $\frac{1}{4}$ and $\frac{1}{6}$ are shaded.
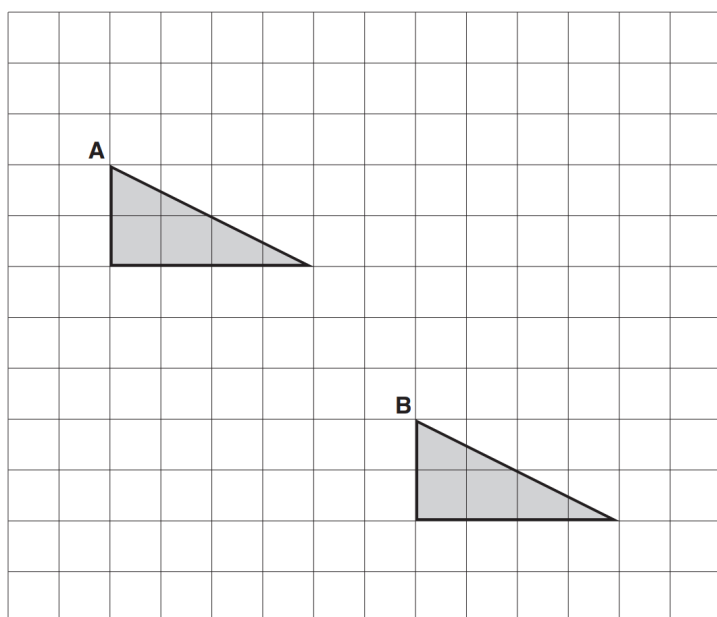
What fraction of the whole circle is **not** shaded?

Show your method

2 marks

---

12 A triangle is translated from position **A** to position **B**.

A

B

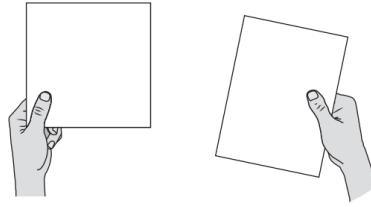Complete the sentence.

The triangle has moved ☐ squares to the right

and ☐ squares down.

1 mark

My Pocket Private Tutor
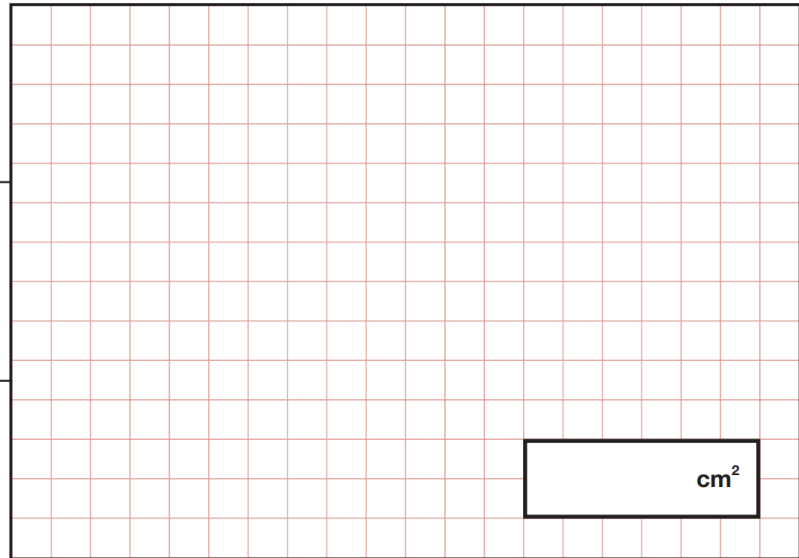
MATH COMPREHENSION *masterclass*

20

A square tile measures 20 cm by 20 cm.

A rectangular tile is 3 cm **longer** and 2 cm **narrower** than the square tile.

What is the **difference in area** between the two tiles?
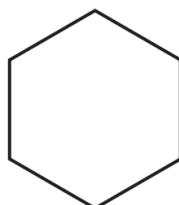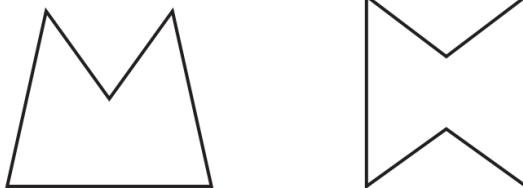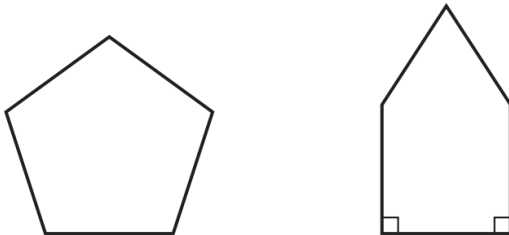
Show your method

cm²

3 marks

13

Circle the **pentagon** with exactly **four acute angles**.
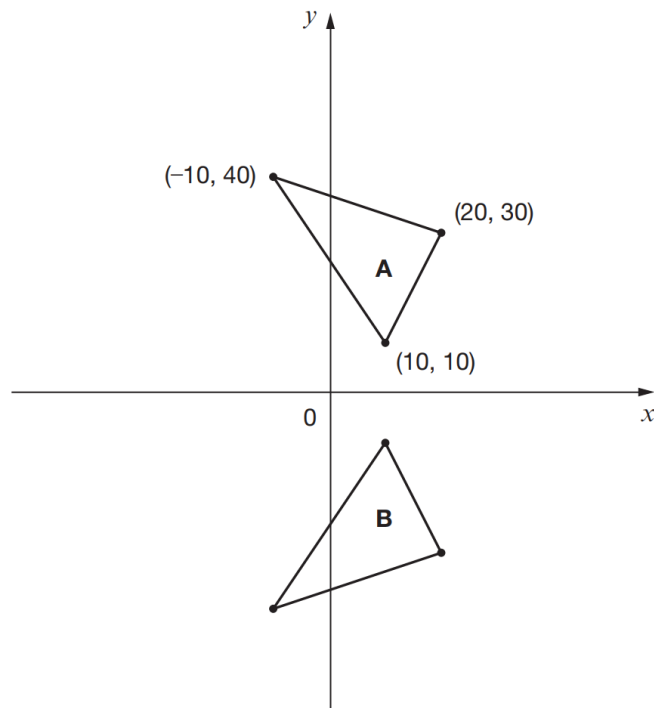
1 mark

My Pocket Private Tutor

MATH
COMPREHENSION
masterclass

20 Here are two triangles drawn on coordinate axes.

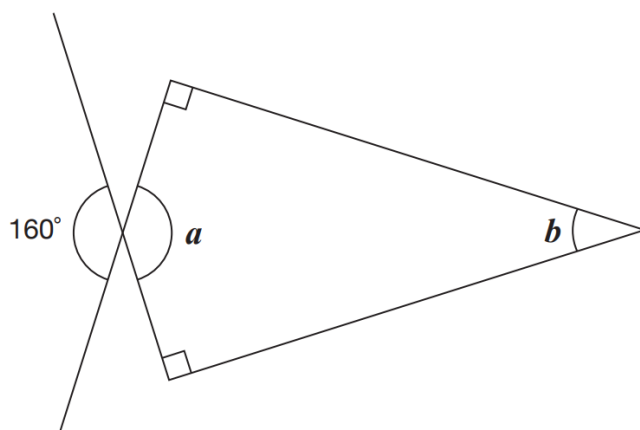

Triangle B is a reflection of triangle A in the x-axis.

Two of the new vertices of triangle B are (10, −10) and (20, −30).

What are the coordinates of the **third** vertex of triangle B?

(,   )

___
1 mark

17 Calculate the size of angles a and b in this diagram.

Not to scale

160°

$a =$ [   ] °

___
1 mark

$b =$ [   ] °

___
1 mark