Monday – LBQ
Multiplying mentally by partitioning

46 x 7

Partition 46 = 40 + 6

40 x 7 = 280   6 x 7 = 42

280 + 42 = 322

Monday – LBQ
Multiplying mentally by partitioning
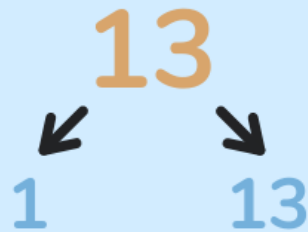
3×525

Partition $525 = 500 + 20 + 5$

$3 \times 500 = 1500$ $3 \times 20 = 60$ $3 \times 5 = 15$
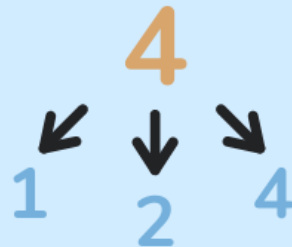
$1500 + 60 + 15 = 1575$

Tuesday – LBQ
Recognising Prime Numbers

How do prime numbers work?

13

↙ ↘

1   13

13 has **only two factors - itself and 1**. So it is a prime number.

4

↙ ↓ ↘

1   2   4

4 has **three factors - itself, 1 and 2**. So it is NOT a prime number.

Remember all prime numbers are **odd** except for 2 which is the only even prime number. 1 is **not** a prime number as it has only 1 factor. Prime numbers must only have 2 factors (itself and 1).
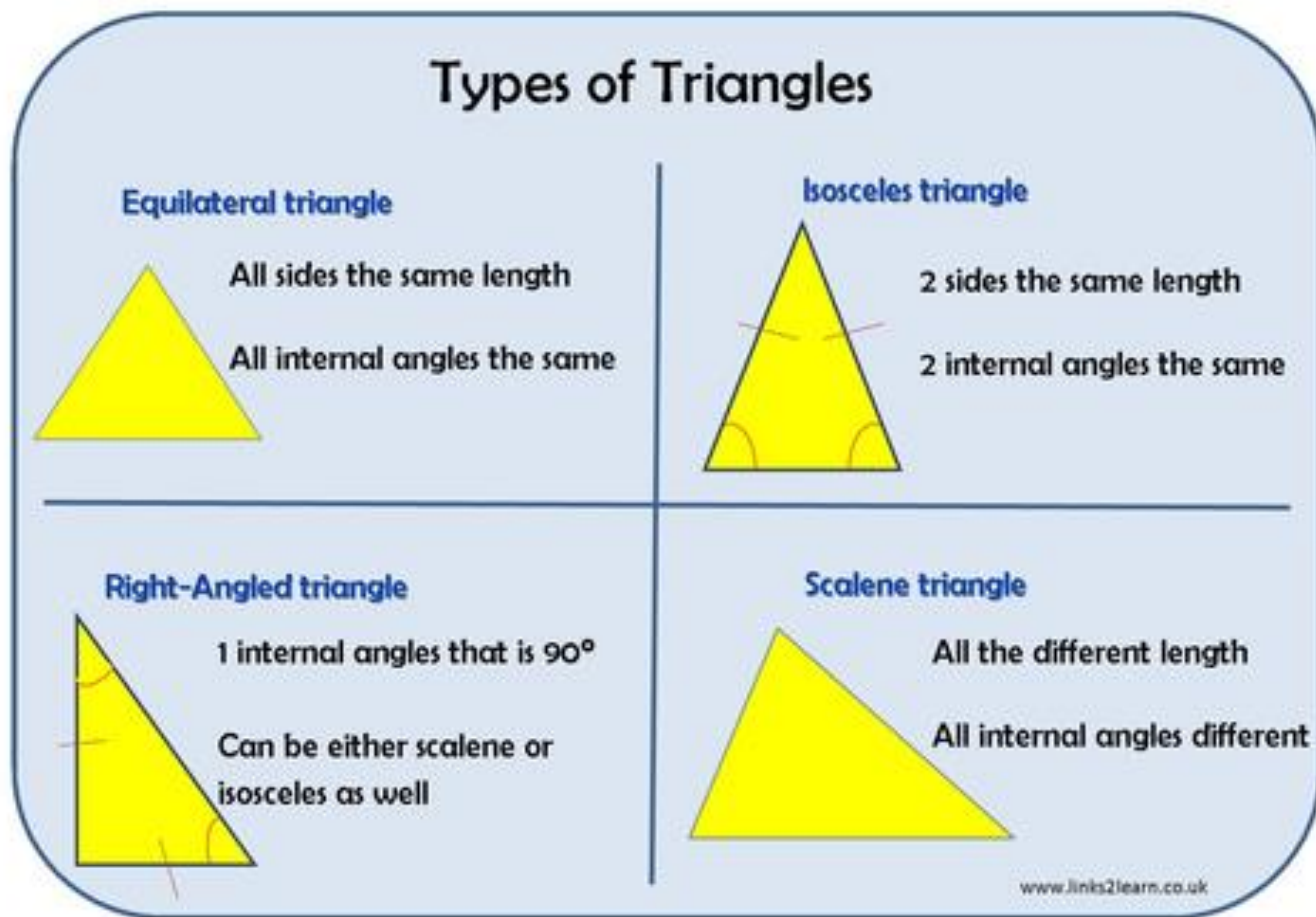
Wednesday – LBQ
Multiplying Decimals by Whole Numbers

When you use short multiplication to multiply a decimal by a whole number it is exactly the same as when you multiply whole numbers except you need to make sure the decimal point is in the same place in your answer.

$$
\begin{array}{r}
24 \\
\times \quad 4 \\
\hline
96 \\
\scriptstyle 1
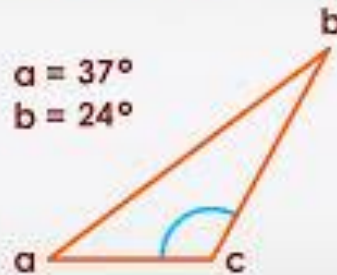\end{array}
$$

$$
\begin{array}{r}
3 \cdot 1\ 9 \\
\times\ 8 \\
\hline
2\ 5 \cdot 5\ 2 \\
\scriptstyle 1 \quad\ \scriptstyle 7
\end{array}
$$

My Maths – Angle Reasoning

Types of Triangles

Equilateral triangle

All sides the same length

All internal angles the same

Isosceles triangle

2 sides the same length

2 internal angles the same

Right-Angled triangle

1 internal angles that is 90°

Can be either scalene or isosceles as well

Scalene triangle

All the different length

All internal angles different

www.links2learn.co.uk

Remember the angles in a triangle always add to 180°

How to find the Angle of a Triangle

$a = 37°$
$b = 24°$

b

$c = 180° - a - b$
$= 180° - 37° - 24°$
$= 119°$

$a + b + c = 180°$
$37° + 24° + c = 180°$
$c = 119°$

a

c

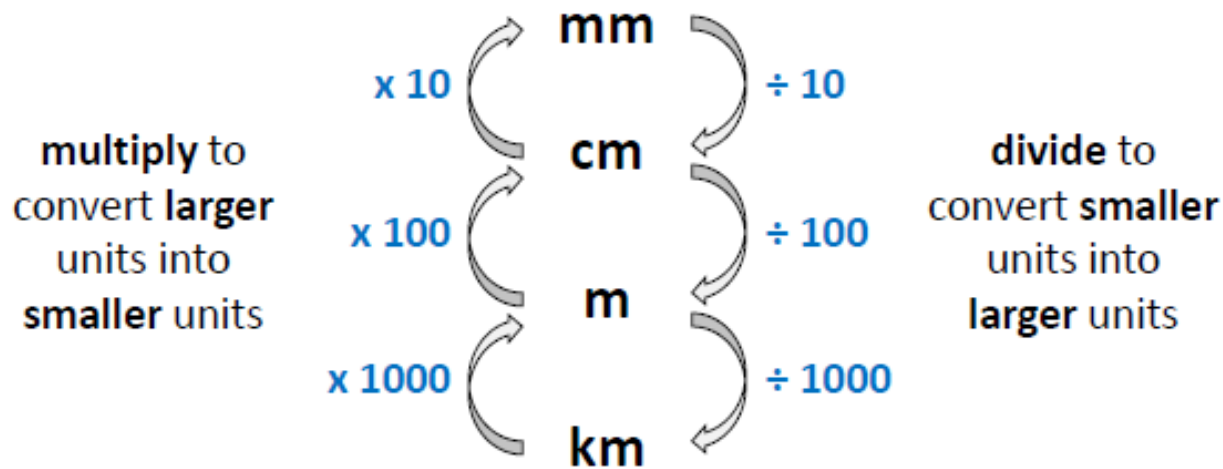Tutors.com

I

90° 90°

T

60° 30°

R E
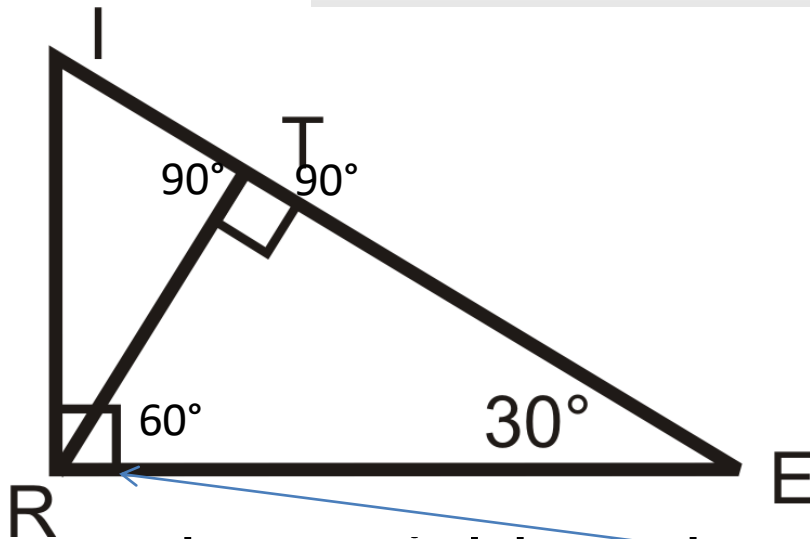
Remember a right angle = 90° so these 2 angles add to 90°. So if the right angle = 60° the left is 30° which leaves 60° for the angle at I.
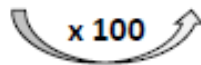
My Maths - Converting Measurements

Length

10 mm = 1 cm   100 cm = 1 m   1000m = 1 km

Converting Length

<div align="center">

mm

x 10   ÷ 10

multiply to convert **larger** units into **smaller** units

cm

x 100   ÷ 100

divide to convert **smaller** units into **larger** units

m

x 1000   ÷ 1000

km

</div>

Examples

3m = 300cm   60mm = 6cm   5.6km = 5600m

x 100   ÷ 10   x 1000

2 ½ km = 2500m   7800m = 7.8km

x 1000   ÷ 1000

Mass

Capacity

1000 g = 1 kg

1000 ml = 1 litre (l)

g

ml

x 1000 ÷ 1000

x 1000 ÷ 1000

kg
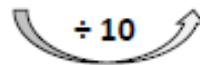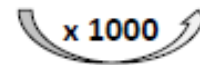
l
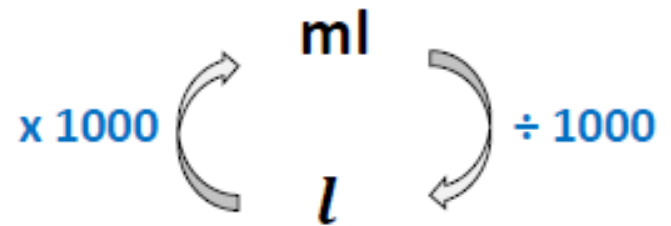
Examples

4.5kg = 4500g   3800g = 3.8kg   6.5l = 6500ml

x 1000   ÷ 1000   x 1000
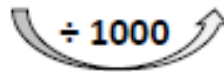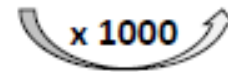
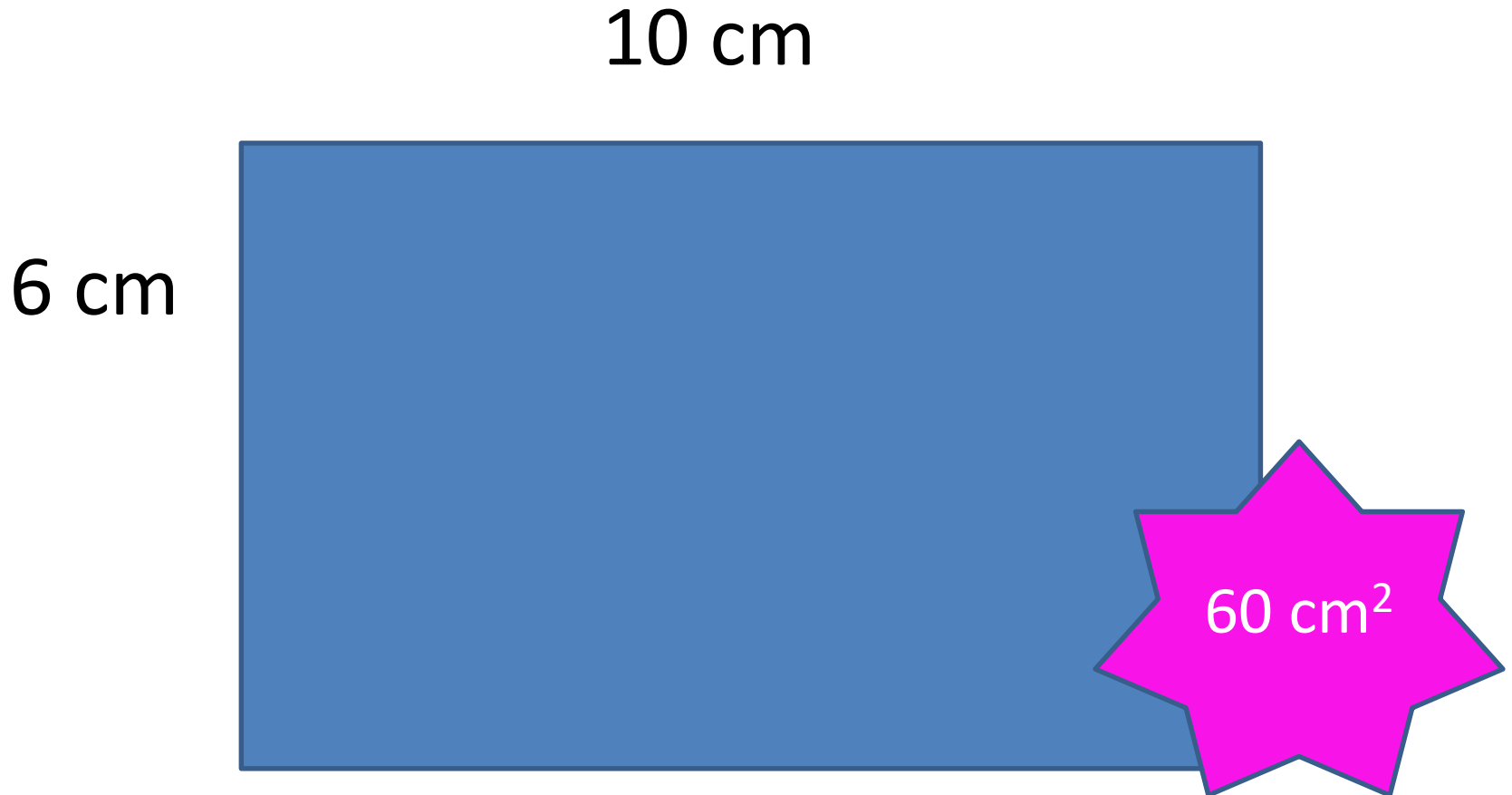0.25kg= 250g   145g=0.145kg   3400ml = 3.4l

x 1000   ÷ 1000   ÷ 1000

My Maths – Area of Triangles

What's the area of this rectangle?
Remember the formula for rectangles = length x width

10 cm

6 cm

60 cm^2

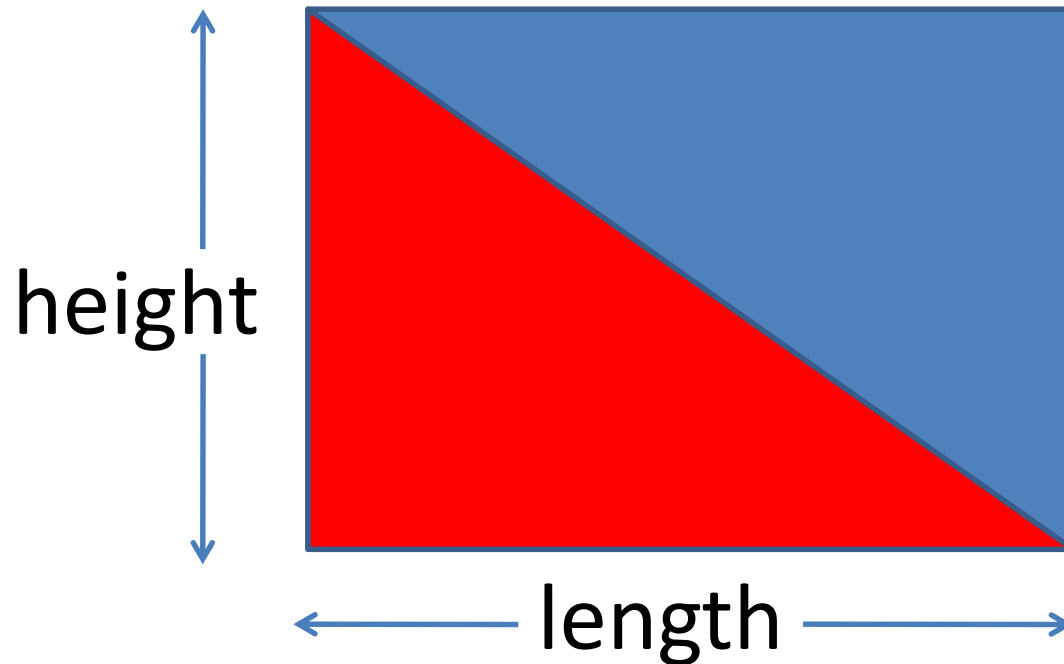# What's the area of the red triangle?

Notice the triangle is half the size of the rectangle

10 cm

6 cm

30 cm^2
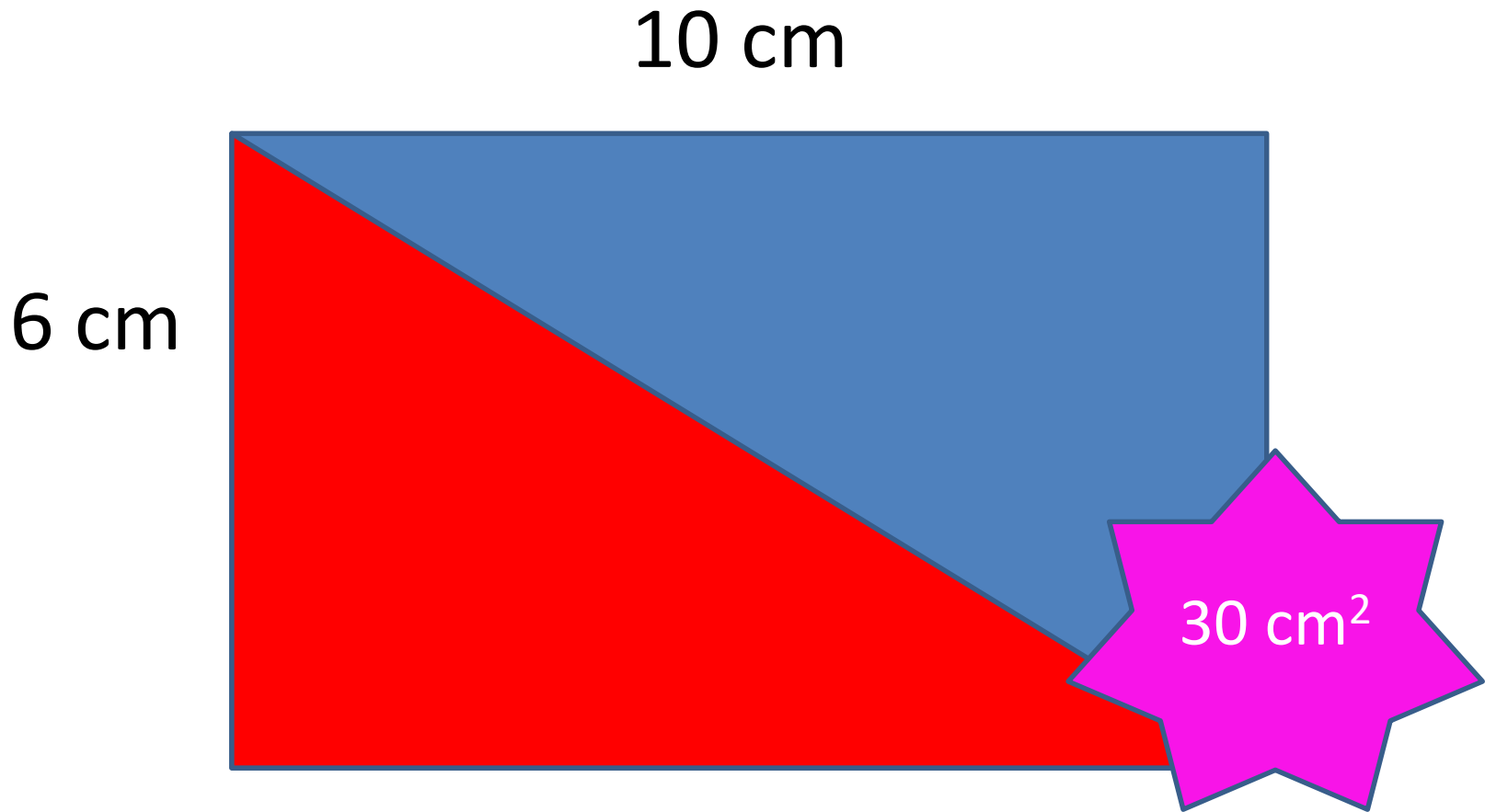
Area of a triangle

Area = ½ length x height

What's the area?

4 cm

8 cm

½ of 8 x 4 =

16 cm²

What's the area?

8 cm

8 cm

32 cm²
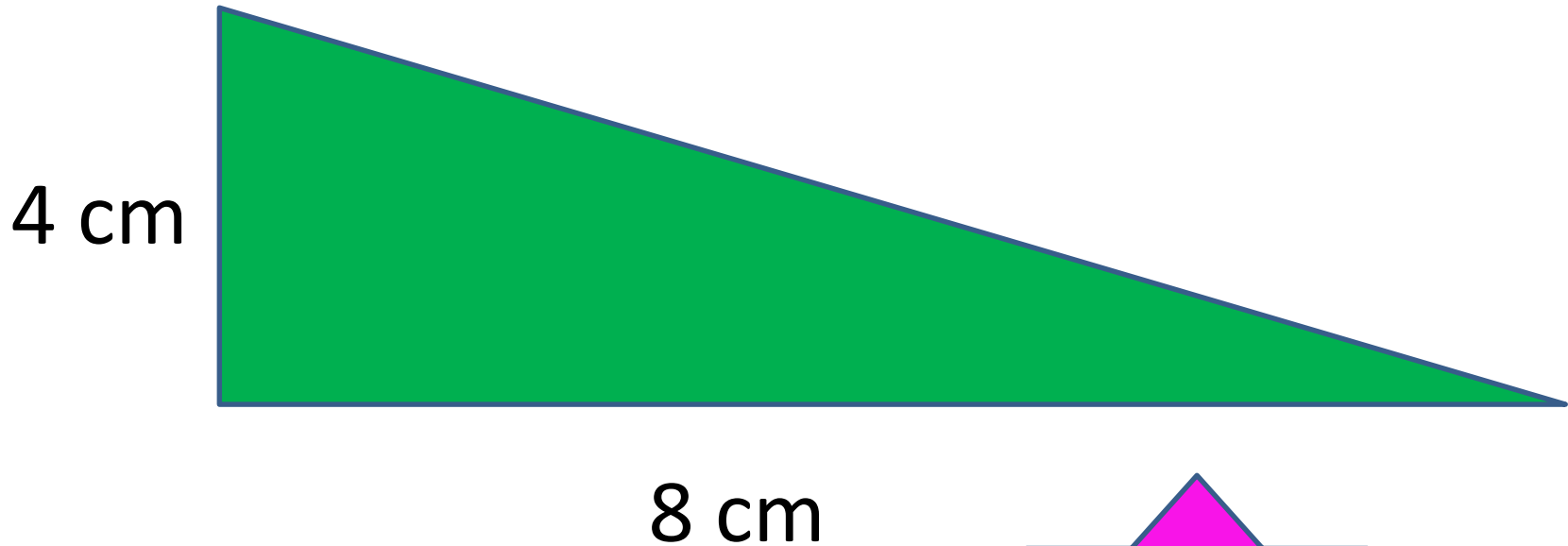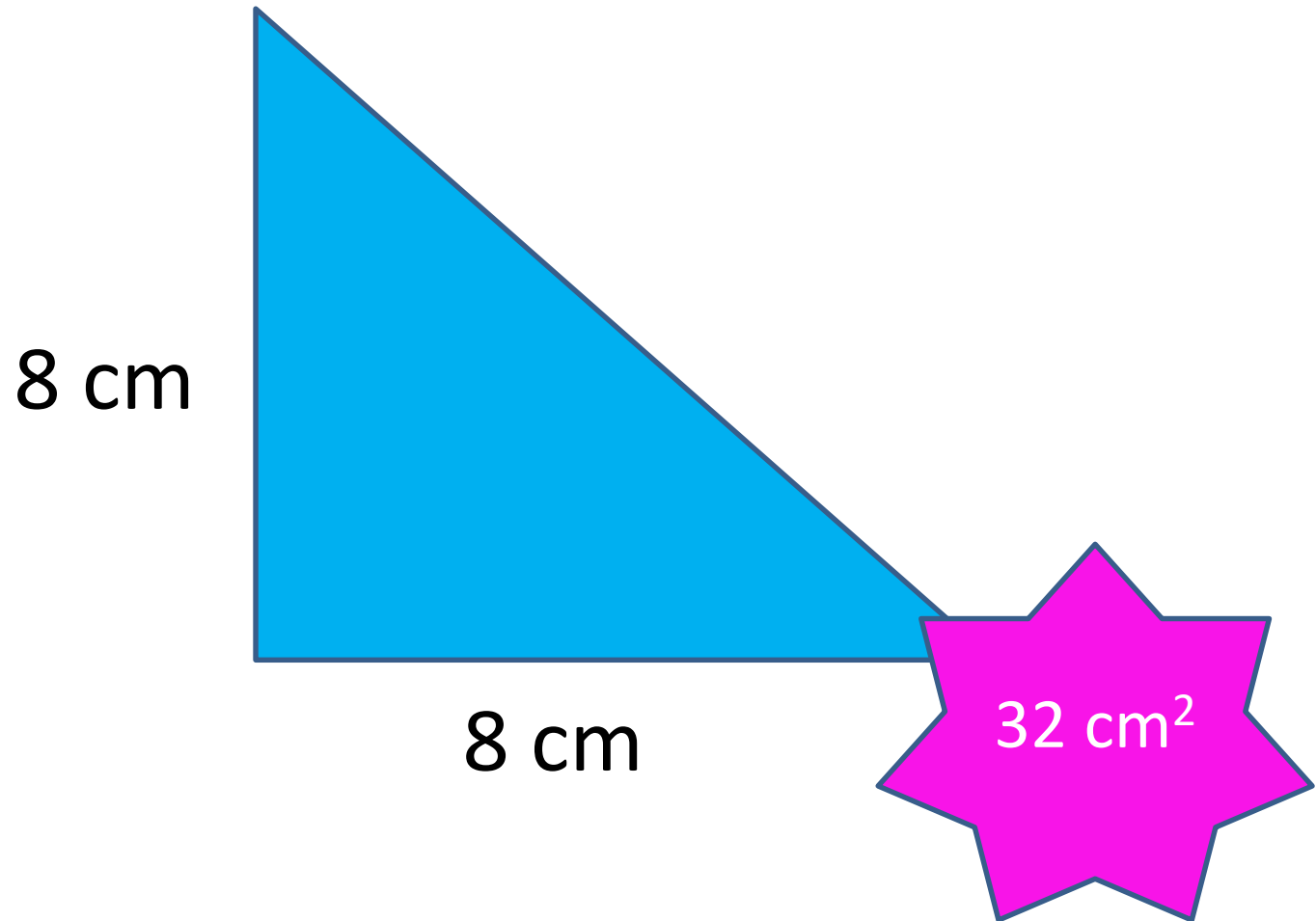
My Maths – Rounding and Accuracy

Take a look at this website for revision of rounding

https://www.bbc.co.uk/bitesize/topics/zh8dmp3/articles/zpx2qty

Rounding Poem

Find your place
Look next door
5 or greater, add one more
All digits in front stay the same
All digits behind, zero's your name

Example:

Round to nearest ten

6 3 → 60
6 5 → 70
5 2 4 → 520
5 2 8 → 530

Round to nearest hundred

4 35 → 400
4 62 → 500
7 3 2 8 → 7300
7 3 5 6 → 7400

Rounding to the nearest 10,000

42,566 → 40,000

67,892 → 70,000

Look at the thousands digit when rounding to the nearest 10,000.

My Maths – Two Way Tables

	Like Skateboards	Do Not Like Skateboards	Totals
Like Snowmobiles	80	25	105
Do not like Snowmobiles	45	10	55
Totals	125	35	160

We use this table to answer many questions.

From this two way table we can see that 25 teenagers like snow mobiles but do not like skateboards. Whereas 80 teenagers like both snow mobiles and skateboards.

Watch this video for how to complete a two way table
https://www.youtube.com/watch?v=U785Y-QI-K8