Name: _____

Year 5 Spring 2 Problem solving and reasoning

Class: _____ Date: _____

Complete the **missing** parts of this multiplication grid.

×	30	Α
20	В	С
3	D	18

- A =
- B =
- C =
- D =

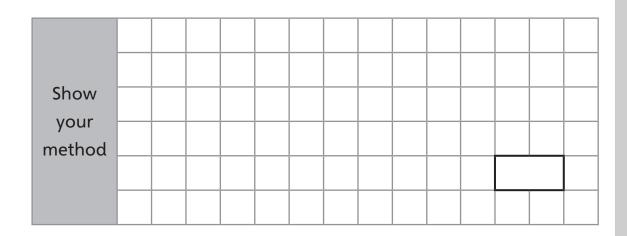


There are **24** pencils in a box.
How many pencils are there in **28 boxes**?

Show							
your method							
method							



On a whole-school trip I adult is needed for every 8 children. If I33 children go on the trip, how many adults are needed?

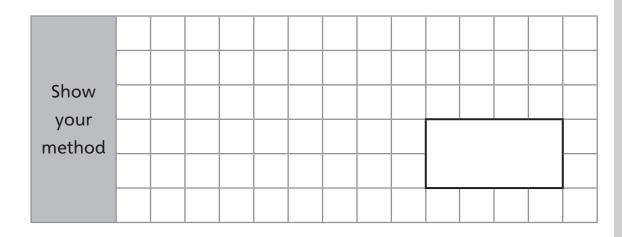




Which is the larger amount?

$$\frac{1}{5}$$
 of £545 $\frac{1}{6}$ of £636

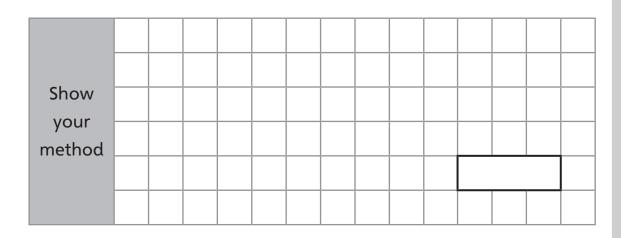
You must show your working in the box below.





Samara is trying to find $\frac{3}{5}$ of 255. She says the best way is to divide 255 by the denominator then multiply that answer by the numerator.

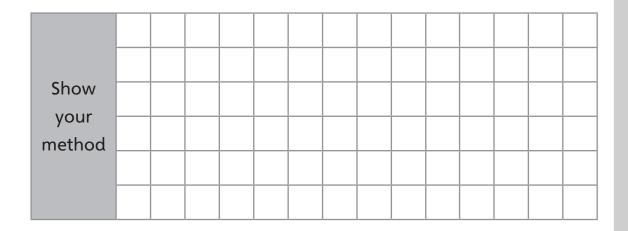
Show how she did this in the box below.





Which has the longer **perimeter**: a **square** with sides of **I27 mm** or an **equilateral triangle** with sides of **I76 mm**?

You must show your working in the box below.



The shape with the longest perimeter is the ______.



7

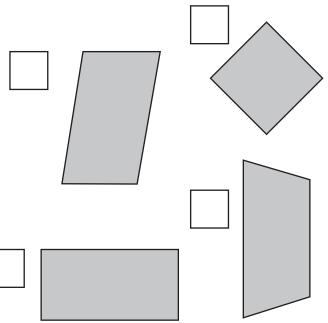
For each shape, write the letter that matches the description.

A One pair of parallel sidesNo right anglesOne line of symmetry

B Four right angles

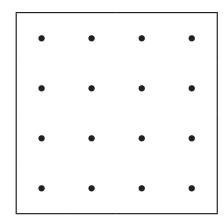
Four lines of symmetry
Two pairs of parallel sides

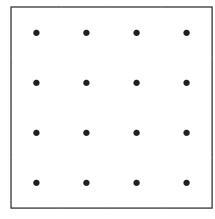
- C Two lines of symmetry Two pairs of parallel sides Four right angles
- D No right angles
 No lines of symmetry
 Two pairs of parallel sides

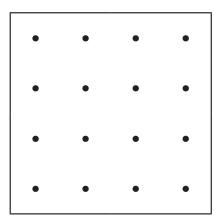




Draw each **polygon**. Each corner must be on a **dot**. Use a ruler.







- a) A quadrilateral that is **not** a rectangle
- b) An isosceles triangle that does **not** have a right angle
- c) A heptagon
- d) A pentagon with a right angle



q

Draw lines to match the **description** with the **imperial unit** you would use to measure it.

- a) Distance from London to Manchester pints
- b) Capacity of a jug miles
- c) Span of a hand pounds
- d) Mass of a bag of sugar inches



10

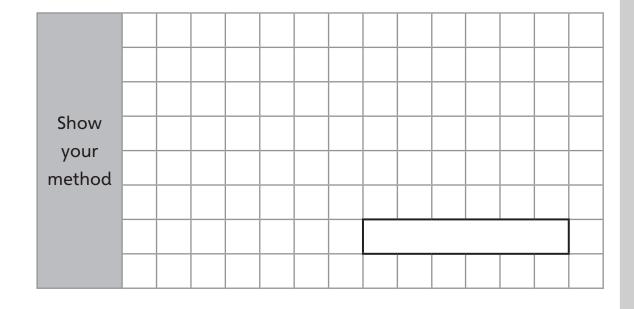
8 kilometres (metric) is equivalent to 5 miles (imperial).

In England, Peter travels 20 miles from his home to work.

In France, Pierre travels 24 kilometres from his home to work.

Who travels the **furthest**?

You must show your working in the box below.





Ш

Write the two **missing** fractions in each sequence.

- a) $\frac{1}{8}$
- <u>3</u> 8
- **7** 8
- $1\frac{1}{8}$
- $1\frac{5}{8}$

- b) $4\frac{3}{4}$
- $4\frac{1}{4}$
- $3\frac{1}{4}$
- <u>3</u>



 $1\frac{3}{4}$



- 12
- a) Change the improper fraction to a mixed number.

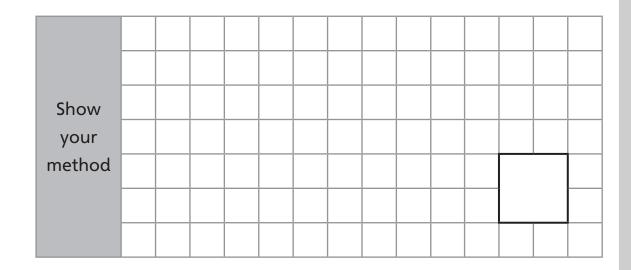
b) Change the **mixed number** to an **improper fraction**.

a			
<u> </u>			
3—	_ =		
· 10			
10	'	1	



7 children are eating pizzas. Each child's pizza is cut into 8 slices. If each child eats 5 slices of their pizza, how much pizza in total has been eaten by the 7 children?

Use the box below to show your working and give your answer as a mixed number.





Use the table below to answer the following questions.

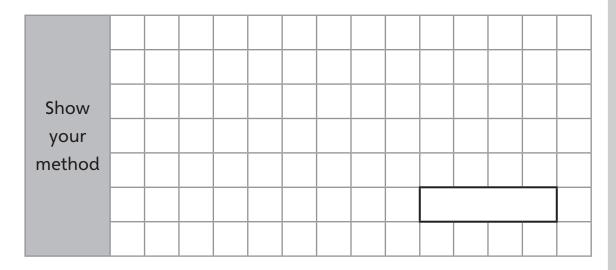
School house point scores in Autumn term

Greens	1753
Blues	2561
Reds	862
Yellows	937

How many **more** points did **Blues** score than **Greens**?

Show							
your method							
method							

How many points did **Greens**, **Reds** and **Yellows** score **altogether**?





For teacher use

Your mark	out of 30
What went well	
How to improve	