

National Assessments  
5 -14

Mathematics

Level E

Name .....

Date.....

Assessment 000 - A



*Assessment is for Learning*

Questions 1 - 6 will be read to you.

Write down your answer to these questions without doing any working

1

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2

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3

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4

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5

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6

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7

A large container holds 5.75 litres of juice.

How many millilitres of juice is this?

Answer: \_\_\_\_\_ ml

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8

The population of a town is 65734.

What is the population to the nearest thousand?

Answer: \_\_\_\_\_

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9

A coil of wire is 20 metres long. An electrician cuts off 0.85 metres.

What length of wire is left?

Answer: \_\_\_\_\_ m

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10

One winter's day the temperature inside is  $18^{\circ}\text{C}$  and the temperature outside is  $-4^{\circ}\text{C}$

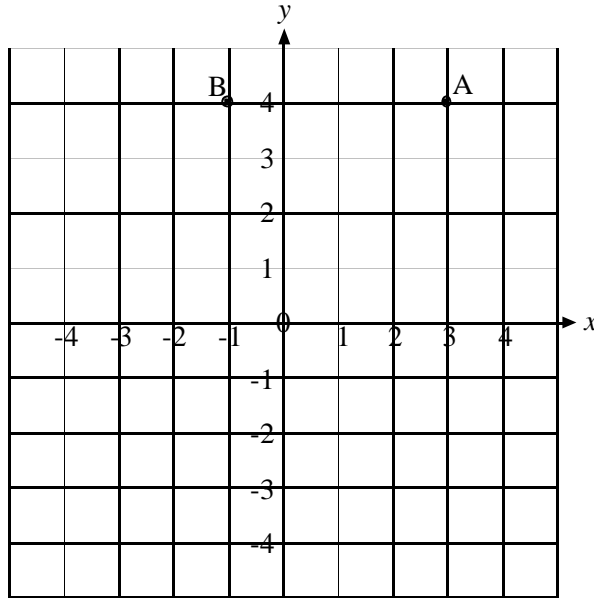
What is the difference between these temperatures?

Answer: \_\_\_\_\_ degrees

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11

Points A and B of triangle ABC are shown on the grid below.

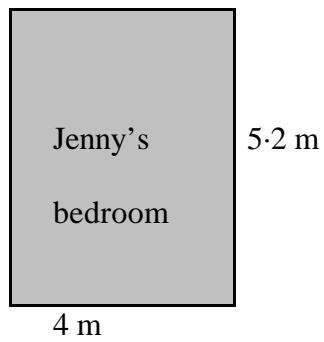


Point C has co-ordinates (-1, 2).

Plot point C and complete triangle ABC.

12

What is the area of Jenny's bedroom?



Answer: \_\_\_\_\_ m<sup>2</sup>

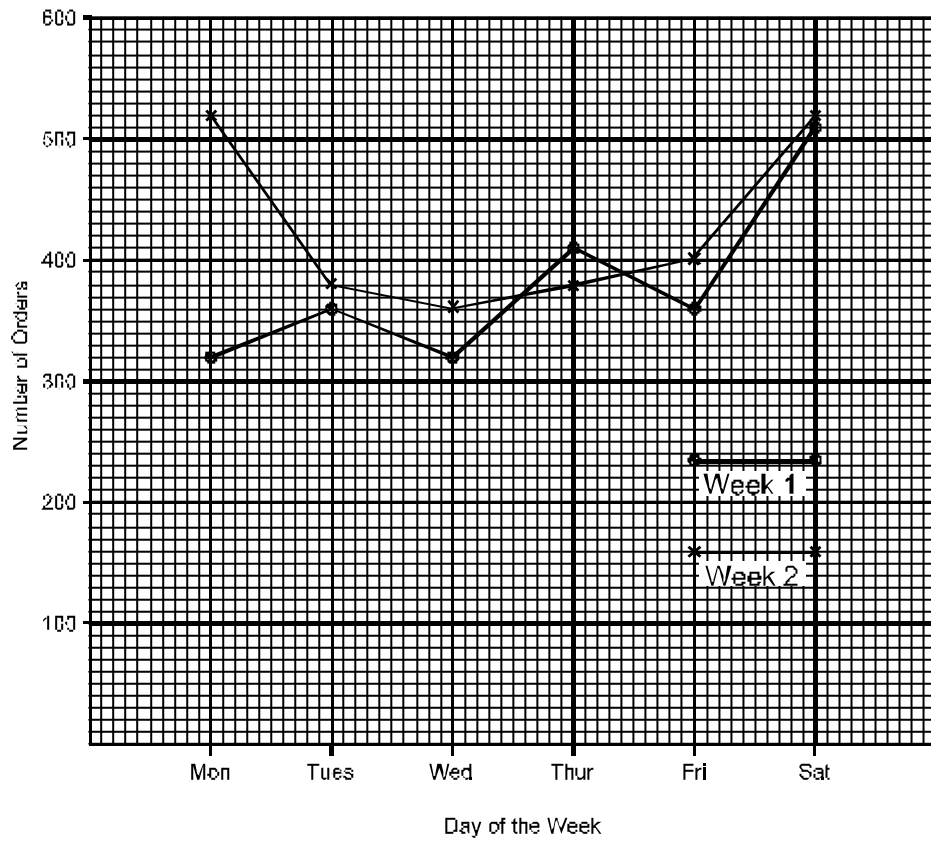
13

Put a number in the box to make the following statement true.

$$2715 = \boxed{\phantom{0000}} \div 1000$$

14

The graph shows the number of mail orders received by a company on 2 different weeks.



On which day of the week were there fewer orders in week 2 than in week 1?

Answer: \_\_\_\_\_

15

Seven pupils in a class had their heights and weights measured. The results are shown in the table.

Name	Height (cm)	Weight (kg)
Kerry	168	64
Mark	180	79
Linda	174	66
Viv	181	75
Des	159	78
Paul	162	69
Ethan	145	57

Who weighs between 65 and 70 kg **and** is less than 170 cm tall?

Answer: \_\_\_\_\_

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16

Each side of a cube has length 4 cm.

Calculate the volume of the cube.

Answer: \_\_\_\_\_ cm<sup>3</sup>

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17

Add

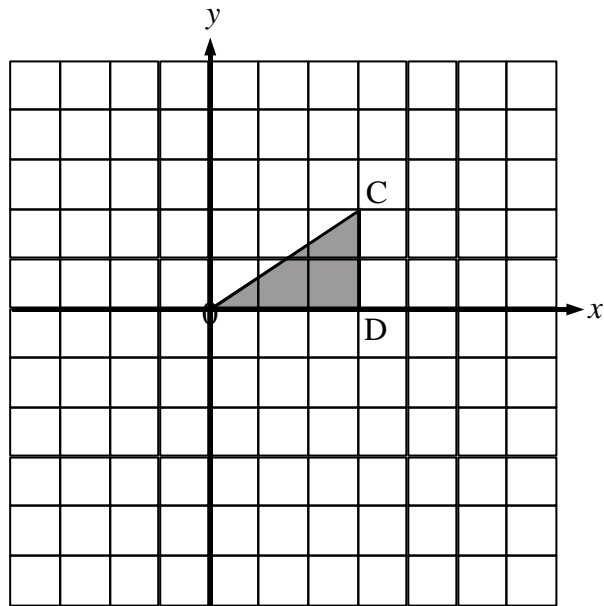
$$23.86 + 79.52$$

Answer: \_\_\_\_\_

18

Triangle OCD is given a clockwise rotation of  $180^\circ$  about O.

Draw the triangle in its new position.



19

A box of six eggs is bought in a supermarket.

The weights of the eggs are:

51g   52g   53g   54g   50g   49g

What is the average (mean) weight of the eggs in the box?

Answer: \_\_\_\_\_ g

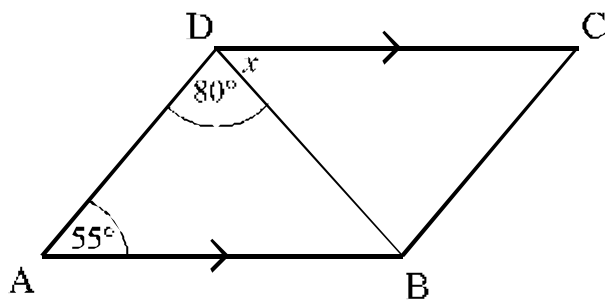
20

Draw a possible net for a triangular prism.

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21

ABCD is a quadrilateral. DC is parallel to AB.



Calculate the size of angle  $x$ .

Answer: \_\_\_\_\_ $^\circ$

22

5.35 kilograms are cut from a block of cheese weighing 20 kilograms.

What is the weight of the piece remaining?

Answer: \_\_\_\_\_ kg

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23

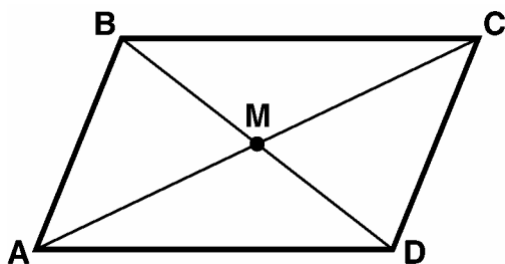
$$2x + 27 = 45$$

What is the value of  $x$ ?

Answer: \_\_\_\_\_

24

ABCD is a parallelogram. The diagonals AC and BD cut each other at M.  
AC = 28cm and BD = 20cm.



What is the length of MC?

Answer: \_\_\_\_\_ cm

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25

Four boys and 4 girls enter a doubles tennis competition.

How many different partnerships could there be altogether?

Answer: \_\_\_\_\_ partnerships

26

How many pieces of rope, each 6 metres long, can be cut from a length of rope 291.5 metres long?

Answer: \_\_\_\_\_ pieces

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27

A car is 440 cm long.

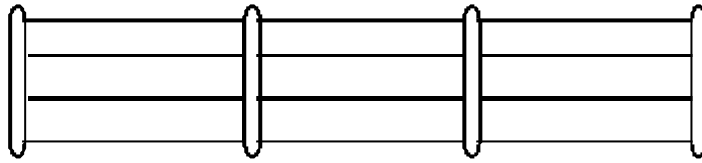
A scale model is made using a scale of 1:20.

What is the length of the scale model?

Answer: \_\_\_\_\_ cm

28

New fencing bought for a garden looks like this:



2 posts have 4 spars across them.  
3 posts have 8 spars across them.  
4 posts have 12 spars across them.

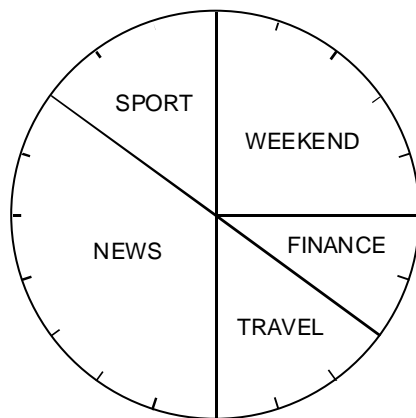
How many spars would there be with 26 posts?

Answer: \_\_\_\_\_ spars

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29

A weekend newspaper comes in 5 sections.

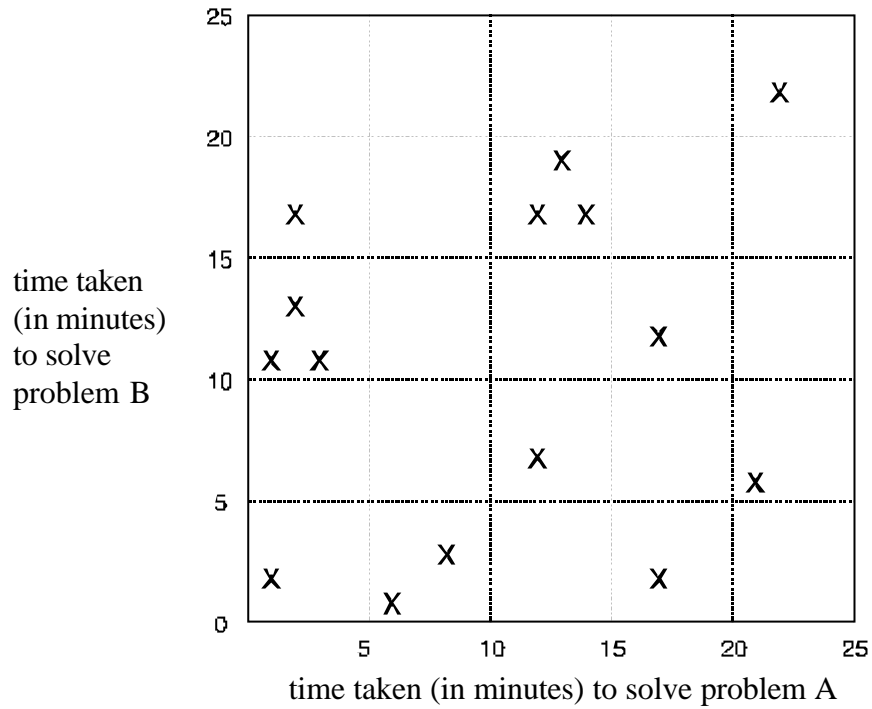


What percentage of the paper is taken up by travel?

Answer: \_\_\_\_\_ %

30

Fifteen pupils are given two problems to solve. The times taken by each pupil to solve each problem are recorded and plotted on the chart below.



How many pupils solved problem A in less than 5 minutes but took more than 15 minutes to solve problem B?

Answer: \_\_\_\_\_ pupils

## Mental Questions - for teacher use only

Questions 1 - 6 should be read to the pupils.

Read each question twice. Pause for 10 seconds between each question.

Remind pupils that they must write their answer to each question without doing any working.

(After completing the oral mental questions, instruct pupils to continue with the questions written in their assessment booklet.)

1

What is 25% of 160?

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2

Subtract 6.4 from 10.

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3

In one week 70 thousand vehicles use one section of a motorway.  
On average, how many vehicles use that section in one day?

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4

Divide 345 by 100

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5

Multiply 15 by 20.

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6

One box of chocolates costs £4.60. What is the cost of 10 boxes?

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## **Last Page**

This is the last page of the Assessment.

It can be discarded.