

11+ Maths

Practice Paper 1

60 minutes

Instructions:

You have 60 minutes to attempt all questions

Calculators must **not** be used

Show all your working out on this paper

There are 100 marks in total for this test

11+

Date:

Score:



1. Calculate:

(i) $52 + 39$

Answer _____ [1]

(ii) $374 - 186$

Answer _____ [1]

(iii) $35 \div 5$

Answer _____ [1]

(iv) 33

Answer _____ [2]

(v) Ten percent of ninety

Answer _____ [1]

(vi) 5.8×100

Answer _____ [1]

(vii) $489 + 234$

Answer _____ [1]

(viii) 36×6

Answer _____ [1]

2.

(i) If $382 \times 56 = 21,392$, what is 382×560 ?

Answer _____ [1]

(ii) What are the first three multiples of 16?

Answer _____ [2]

(iii) What are all the factors of 15?

Answer _____ [1]

3.

(i) A case of 9 bananas costs £3.96. How much does 1 banana cost? Give your answer in pence.

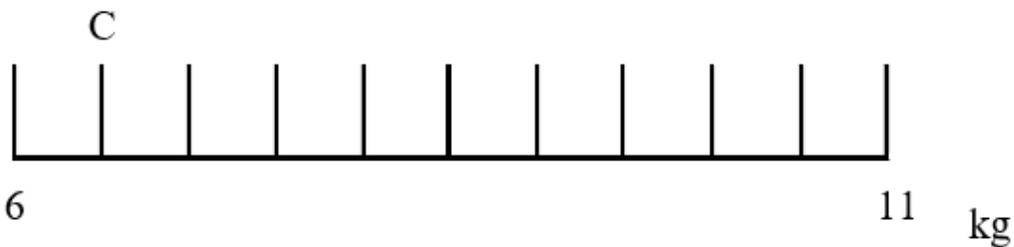
Answer _____ [2]

(ii) Jacob has £20 and buys 5 cases of bananas. How much change does he get back?

Answer _____ [2]

4.

The post office is handling a parcel and marks its weight as C on the scales below:



What is the weight of package C?

Answer _____ [2]

5.

(i) Shaznay is getting the train and travelling for 785.5km. How many metres does she travel?

Answer _____ [2]

(ii) The train left at 09:47am and the journey took 3 hours and 16 minutes. What time does Shaznay arrive at her destination?

Answer _____ [2]

6. Work out the following:

(i) $3852 + 1238$

Answer _____ [2]

(ii) $4358 - 1847$

w

Answer _____ [2]

(iii) 238×24

Answer _____ [2]

(iv) $897 \div 13$

Answer _____ [2]

(v) Round 1746 to the nearest 100

Answer _____ [1]

(vi) Round 8545 to the nearest 10.

Answer _____ [1]

7. Look at these numbers:

7 13 21 28 35 76

(i) Calculate the mean of the numbers

Answer _____ [2]

(ii) Calculate the median of the numbers

Answer _____ [2]

(iii) Calculate the mean of the prime numbers in the list

Answer _____ [2]

8. Look at this list of values:

25% 2/5 0.34 8/5 3/10

(i) Write down the largest value

Answer _____ [1]

(ii) Write down the value equivalent to 30%

Answer _____ [1]

(iii) Write down the value equivalent to 40%

Answer _____ [1]

9.

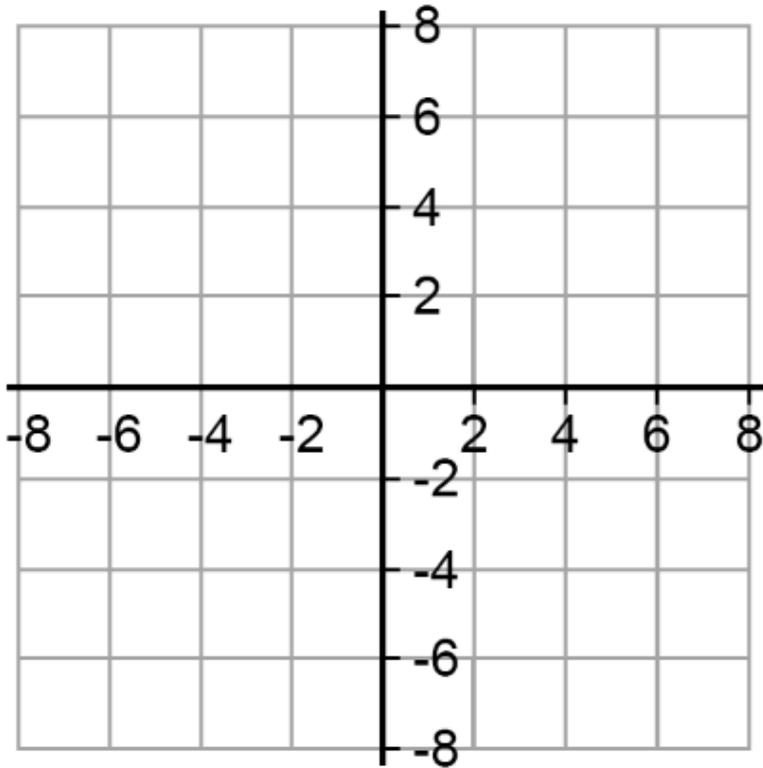
(i) Chris has savings of £5,500. He is looking to buy a car that costs £8,250. The car then has its price reduced by 20%. How much more money will Chris need to save to buy the car at the reduced price?

Answer _____ [3]

(ii) Chris comes up with an alternative plan, where instead he saves his money in a savings account. He finds one that offers 5% interest per year on the first £5,000 saved and 3% on everything above. If he doesn't spend any money throughout the year, how much money will he have in his savings account at the end of the year?

Answer _____ [3]

10. (i) Plot the shape (4,2), (2,6), (4,8), (6,6) on the graph and label the shape A



(ii) Write down the type of shape that you have plotted.

Answer _____ [1]

(iii) Reflect shape A in the y axis to create shape B. Then reflect shape B in the x axis to create shape C. Draw both shapes on the graph.

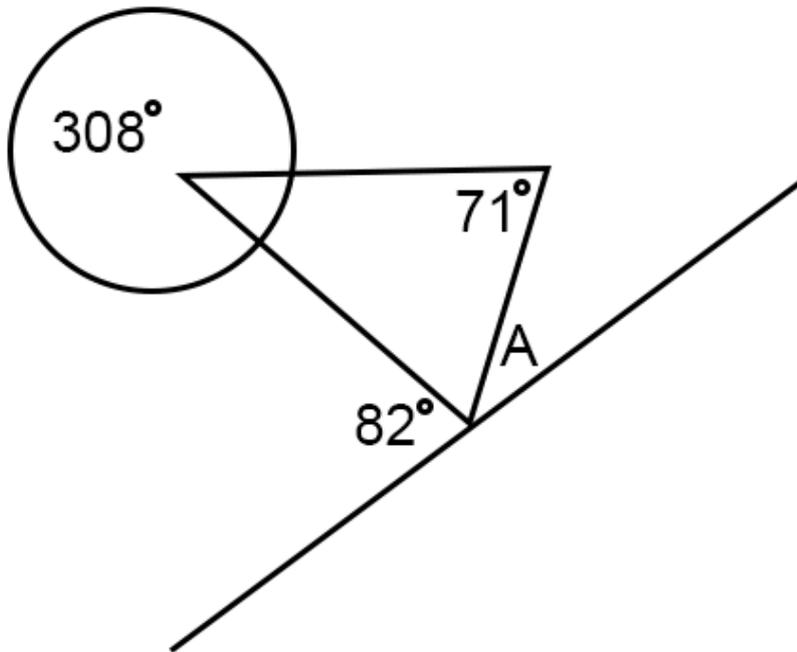
[4]

11.

(i) A set of squares follows a pattern. The first square is made up of 16 smaller squares. The third square is made up of 36 smaller squares. How many smaller squares is the sixth square in the pattern made up of?

Answer _____ [2]

(ii) Calculate the size of angle A below:



Answer _____ [3]

(iii) What type of triangle is in the diagram?

Answer _____ [1]

12.

(i) Pete's rope is 1.62m long. Tracy's is 139cm long. How many metres of rope do they have in total?

Answer _____ [2]

(ii) Mark's baggage at the airport weighs 760g, 2.2kg and 670g. What is the total weight of his baggage in kilograms?

Answer _____ [2]

(iii) The tank in the factory can hold 480 litres of water. The workers fill it up at 400ml a second. How long will it take to fill the container in minutes?

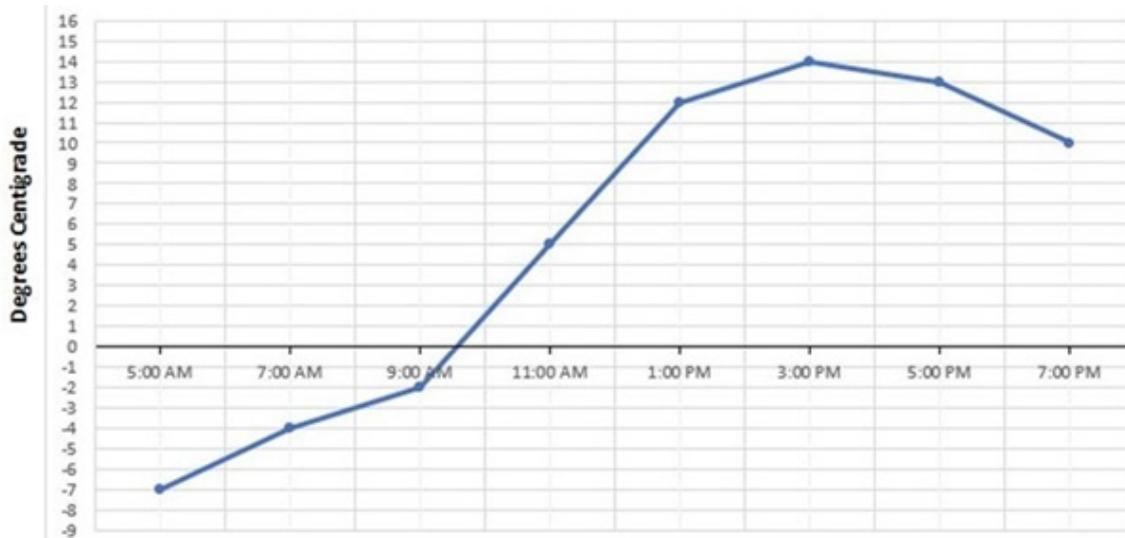
Answer _____ [3]

13.

(i) 7,500 people go to the beach during one week in the summer. 80% of them are wearing a hat of some kind. Of the remainder, two thirds use an umbrella to protect themselves from the sun. How many people do not shield themselves from the sun at all?

Answer _____ [2]

(ii) At the beach, the temperature throughout the day was recorded on this graph:



What was the range in temperature from 7:00am to 5:00pm?

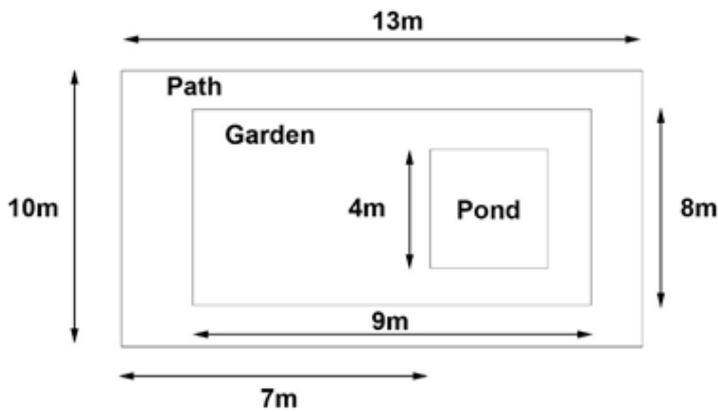
Answer_____ [2]

14.

(i) Joe is painting a cube that is 3m high. He can paint 9m² in 15 minutes. How long will it take him to paint the whole cube?

Answer_____ [2]

(ii) Becky is looking to pave over her garden. She knows that her pond is an exact square, and works out the measurements below:



Calculate the area of Becky's garden that she will need to tile – remember that she won't tile her pond so that will be excluded.

Answer_____ [2]

(iii) Becky now wants to put a fence around her path. What is the perimeter of the path?

Answer_____ [2]

15.

(i) A number D times 100 is 7400 and a number G times 1000 is 1700. What is the value of D - G?

Answer_____ [2]

(ii) A theme park has 620 visitors a day. The cost of a ticket is £9. 210 visitors also buy a fast pass to avoid the queues. The cost of a fast pass is £6. How much money does the theme park take in one day?

Answer_____ [2]

(iii) There are 500 sheets of paper in a ream. How many sheets of paper are in 6.5 reams?

Answer_____ [2]

(iv) Edita walks 4.5 kilometres in 30 minutes. How far will she walk if she carries on at the same speed for 3 hours?

Answer_____ [2]

16.

(i) On Monday morning, the temperature in my garden was 2 degrees Celsius. It dropped 1.5 degrees each morning after that. What was the temperature on Friday morning?

Answer_____ [2]

(ii) From 3 oranges Guy can squeeze 132ml of Juice. How much juice should he be able to squeeze from 8 oranges?

Answer_____ [2]

(iii) Ritu phoned Carole on her mobile. The rate for the first 7 minutes was 6p per minute. After that the telephone call cost 5p per minute. The call lasted 23 minutes. How much did it cost?

Answer_____ [2]

17.

(i) Dick, Ahmed and Martin have 220 games between them. Ahmed has three times as many games as Martin. Dick has twice as many games as Ahmed. How many games does Ahmed have?

Answer_____ [3]

(ii) The width of a square is $7x - 2y$. Express the perimeter of the square.

Answer_____ [3]

(iii) The three digits of a three digit number add up to 16. The tens value is one more than half the value of the hundreds value. The unit value is 5 less than the hundreds value. What number is the tens value?

Answer_____ [3]

END OF TEST