

Level 2

Information for centres and learners

- The duration of this examination is **40 MINUTES**. The examination consists of **7 QUESTIONS** and is worth **17 MARKS**.

(in full)

[illegible]

(8 digits)

Three rectangles are shown, each divided into two equal parts. The first rectangle has the left part shaded and is labeled $\frac{1}{2}$. The second rectangle has the right part shaded and is labeled $\frac{1}{2}$. The third rectangle has all four parts shaded and is labeled 1 .

[illegible]

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YES		NO	
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- I removed the examination paper from the sealed envelope.
- I received no help in answering the questions in this examination paper.
- I am the person stated above on this form.
- I will not discuss the content of the examination with anyone else.

5 August 2022

FSON208P

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Non-calculator Test

1

Which of these numbers is equivalent to 73%?

7.3 7300 73 0.73 0.073

Write the answer in the box below.

(1 mark)

Answer: _____

2

Calculate

$$1000 \div (8 + 2)^2$$

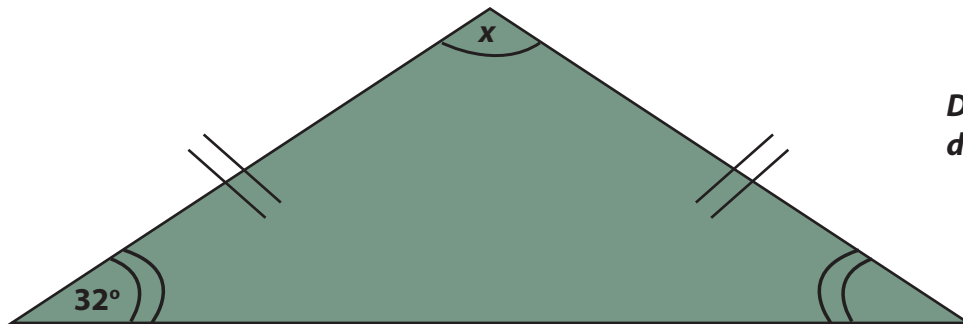
Write the answer in the box below.

(1 mark)

Answer: _____

3

Calculate the value of angle x in this isosceles triangle.



*Diagram not
drawn to scale*

Show your working out and write the answer in the box below.

(2 marks)

Answer: _____°

Scenario A

Highfield Vets

4

You are working for Highfield Vets.

During your first week, Highfield Vets treat 72 cats, 63 dogs, 54 birds and 51 small mammals.

What fraction of the total animals treated are cats?

Give your answer in its simplest form.

Show your working out and write the answer in the box below.

(4 marks)

Answer: _____

5

On Mondays, Highfield Vets are open from 8am to 8pm.

On Tuesdays they are open from 8am to 9pm.

What is the percentage increase in opening hours from Monday to Tuesday?

Show your working out and write the answer in the box below.

(3 marks)

Answer: _____ %

Scenario B

Highfield Sweet Shop

6

You are helping at Highfield Sweet Shop.

A customer buys a bag of mixed sweets.

The bag contains 21 toffees, 10 mints, 4 jelly beans and 7 caramels.

The customer shakes the bag and picks a sweet at random.

What is the probability that they pick a caramel?

Show your working out and write the answer in the box below.

(2 marks)

Answer: _____

7

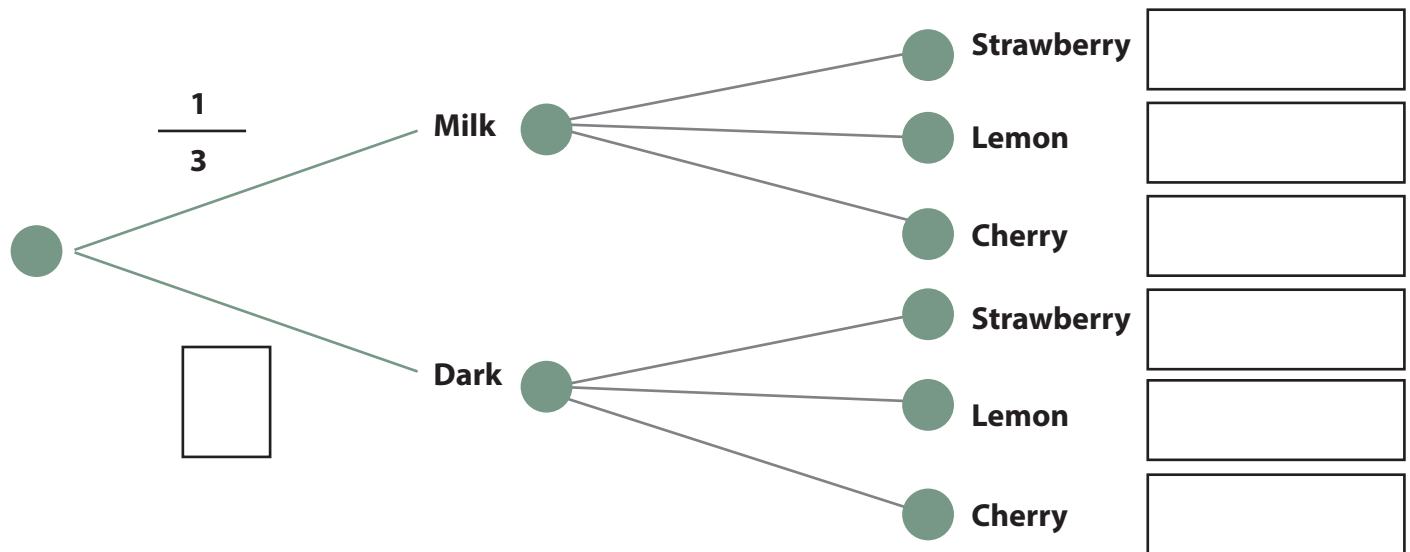
A box contains sweets that are either covered with dark chocolate or milk chocolate.

There are twice as many sweets covered in dark chocolate than there are covered in milk chocolate.

The sweets have different flavoured centres; strawberry, lemon and cherry.

There are an equal number of each flavour.

This diagram shows options of picking each chocolate and the flavour.



Complete the diagram with the probability of each branch.

Use the diagram to find the probability of picking a strawberry flavour sweet with milk chocolate.

Show your working out and write the answer in the box below.

(4 marks)

Answer: _____

For official use only:

	1	2	3	4	5	6	7	TOTAL
Mark(s) available	1	1	2	4	3	2	4	17
Marker								
2nd line marker								

Marker:	
Date:	

2nd line marker:	
Date:	

**Level 2****Mathematics****Highfield Qualifications**

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