



Mathematics 9+ Assessed Homework (November)

Non-Calculator

Name:

Initial reflection:

Assessor:

Feedback:

Response:

1. (a) (i) Write down, in words, the number 35 276.

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- (ii) Write down, in figures, the number sixteen thousand three hundred and forty.

.....

[2]

- (b) Using the following list of numbers

28 16 64 52 43 62 42 8

write down

- (i) two numbers that add up to 90,

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- (ii) the number that is the difference between 67 and 24,

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- (iii) a multiple of 6,

.....

- (iv) the answer when 40 is divided by 5,

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- (v) the square of 8.

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[5]

- (c) Write down a factor of 24 which is between 7 and 11.

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[1]

- (d) Write 7682

- (i) correct to the nearest 10,

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- (ii) correct to the nearest 1000.

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[2]

- (e) Write 14.6375 to two decimal places.

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[1]

2. (a) Calculate 124×36 .

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[3]

(b) Calculate

(i) $\frac{2}{5}$ of 40,

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[2]

(ii) 6% of 400.

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[2]

3. (a) Write down the size of the angles marked x , y and z in the diagram.

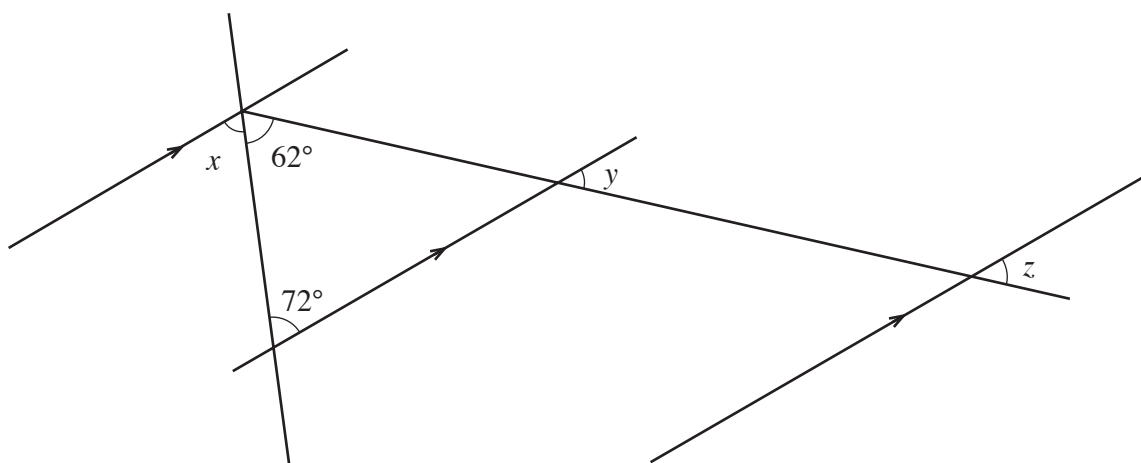


Diagram not drawn to scale.

$$x = \dots\dots\dots^\circ$$

$$y = \dots\dots\dots^\circ$$

$$z = \dots\dots\dots^\circ$$

[3]

- (b) The diagram shows a regular 8-sided polygon.

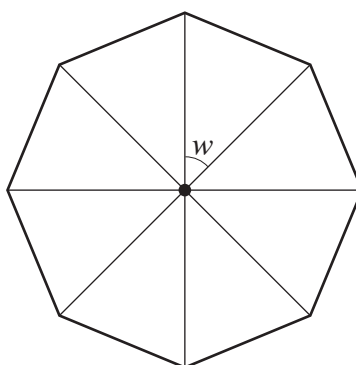


Diagram not drawn to scale.

Calculate the size of the angle marked w in the diagram.

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[2]

- (c) Find the size of the angle marked z .

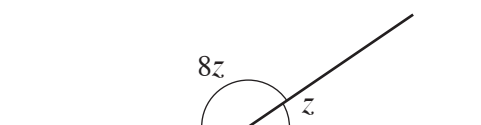


Diagram not drawn to scale.

$z = \dots\dots\dots^\circ$

[2]

4. Express 480 as a product of prime numbers in index form.

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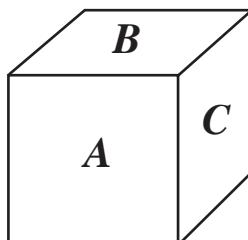
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[3]

5. The faces of a biased dice are labelled A , B , C , D , E and F .



The following table shows the probabilities of the biased dice landing with the top face showing either the letter A or B or C or D or E or F .

Letter	A	B	C	D	E	F
Probability	0.02	0.28	0.26	0.14	0.07	0.23

The dice is thrown once.

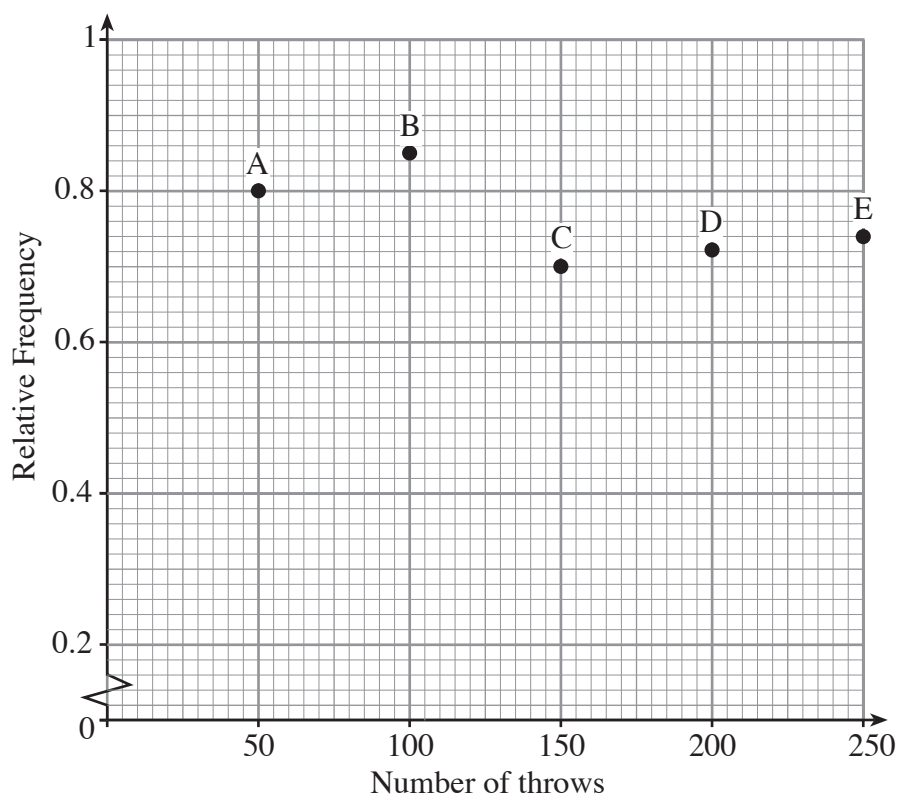
What is the probability that the dice lands with the top face showing either the letter A or the letter F ?

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[2]

6. A biased coin was tossed. The relative frequency of throwing a “Head” was calculated after a total of 50 throws, 100 throws, 150 throws, 200 throws and 250 throws. The results were plotted on the graph below.



- (a) Which **one** of the readings noted by the letters A, B, C, D and E on the graph is likely to give the best estimate of the probability of throwing a “Head” with this coin? **You must give a reason for your answer.**

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(b) Using the graph,

(i) find how many “Heads” were obtained in the first 50 throws,

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[1]

(ii) find how many “Tails” were obtained in the first 100 throws.

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[2]