

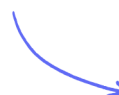
Exam Questions

Using a Calculator

Using a Calculator

Easy (9 questions)	/17
Medium (9 questions)	/16
Hard (5 questions)	/7
Total Marks	/40

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Easy Questions

1 Find the value of $\sqrt{3481}$.

(1 mark)

2 Find the value of

i) $\sqrt[3]{2744}$

[1]

ii) 7^0

[1]

(2 marks)

3 Find the value of

i) 3^0 ,

[1]

ii) 5^{-2} .

[1]

(2 marks)

4 (a) Find the value of $\sqrt{196}$.

(1 mark)

(b) Calculate 15^3 .

(1 mark)

5 (a) Edelgard tries to calculate $\frac{68 + 18}{9 - 5}$

She types into her calculator $68 + 18 \div 9 - 5$.

Explain why this does not give Edelgard the correct answer.

(1 mark)

(b) Work out the correct answer to $\frac{68 + 18}{9 - 5}$.

(1 mark)

6 Find the value of

i) $\sqrt{729}$

[1]

ii) 18^3 ,

[1]

iii) 7^0 .

[1]

(3 marks)

7 (a) Find the value of 24^2

(1 mark)

(b) $\sqrt[3]{2197}$

(1 mark)

8 Find the value of

i) $\sqrt{265.69}$,

[1]

ii) 8^3 .

[1]

(2 marks)

9 Find $\sqrt{3.24}$

(1 mark)

Medium Questions

1 Calculate $\frac{4}{\sqrt{0.0025}}$

(1 mark)

2 Find

i) the square root of 4489,

[1]

ii) 4^3

[1]

iii) $\sqrt[3]{274625}$

[1]

iv) $2^{-3} \times 24^2$

[1]

(4 marks)

3 Write 2^{-4} as a decimal.

(1 mark)

- 4 Find the value of $\sqrt{15}$.
Give your answer correct to 3 decimal places.

(2 marks)

- 5 Find the value of $\sqrt[3]{0.729}$

(1 mark)

- 6 Calculate $\frac{16.379 - 0.879}{4.2} \times 1.241$

Give your answer correct to 2 significant figures.

(2 marks)

- 7 Calculate $\frac{4.85 \times 6.14}{8.91 + 3.89}$

Give your answer correct to 2 decimal places.

(2 marks)

- 8 $p = \frac{1.6 + 9.6^2}{5.9 - 4.3}$

Calculate the exact value of p .

(1 mark)

- 9 (a) Calculate $-12 \div -2$

(1 mark)

(b) Calculate $\sqrt[3]{2^3 + 2}$

(1 mark)

Hard Questions

1 Calculate $\sqrt{\frac{1}{0.01} - 8^2}$

(1 mark)

2 Calculate $\sqrt{(8 + 4 \times 75^{0.6})}$.

(1 mark)

3 Calculate $3.142 - \frac{52163}{16604}$

Give your answer in standard form correct to 2 significant figures.

(2 marks)

4 (a) Calculate $\sqrt[3]{-4.3 \times 6.7^2}$ and write down all the figures shown on your calculator.

(1 mark)

(b) Write your answer to **part (a)** correct to 4 decimal places.

(1 mark)

5 Use your calculator to find:

$$\frac{\sqrt[3]{-7 \times 3^2}}{\left(3\frac{4}{5}\right)^{-2}}$$

Round your answer to 4 significant figures.

(1 mark)