

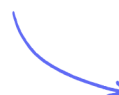
Calculator Questions

Working with FDP

Converting Fractions, Decimals & Percentages / Recurring Decimals / Ordering Fractions, Decimals & Percentages

Easy (4 questions)	/8
Medium (4 questions)	/13
Hard (5 questions)	/6
Total Marks	/27

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Easy Questions

- 1 Sasha takes a music exam.

The table shows the result that Sasha can get for different percentages in her music exam.

Percentage	Result
50% - 69%	Pass
70% - 84%	Merit
85% - 100%	Distinction

Sasha gets 62 out of 80 in her music exam.

What result does Sasha get?
You must show your working.

(2 marks)

- 2 Karen got 32 out of 80 in a maths test.
She got 38% in an English test.

Karen wants to know if she got a higher percentage in maths or in English.

Did Karen get a higher percentage in maths or in English?

(2 marks)

3 Use algebra to show that the recurring decimal $0.3\dot{8} = \frac{7}{18}$

(2 marks)

4 Use algebra to show that the recurring decimal $0.2\dot{6} = \frac{4}{15}$

(2 marks)

Medium Questions

- 1 i) Kristian has \$72 and spends 45% of this on a computer game.

Calculate the price of the computer game.

\$ [1]

- ii) Kristian also buys a meal for \$8.40.

Calculate the fraction of the \$72 Kristian has left after buying the computer game and the meal.

Give your answer in its lowest terms.

[2]

(3 marks)

- 2 Dev makes 600 cakes.

18% of the 600 cakes go to a hotel and $\frac{2}{3}$ of the 600 cakes go to a supermarket.

Calculate how many cakes he has left.

(3 marks)

- 3 Prove that the recurring decimal $0.\dot{3}\dot{6} = \frac{4}{11}$

(3 marks)

4 James is taking three examination papers in Spanish. Here are his first two results.

$$\text{Paper 1: } \frac{43}{80} \quad \text{Paper 2: } \frac{38}{65}$$

Paper 3 is out of 95.

The marks in each of the three papers are added together.

Find the lowest mark that James needs in Paper 3 to achieve 60% of the total marks.

(4 marks)

Hard Questions

- 1 Write the recurring decimal $0.4\dot{7}$ as a fraction.
Show all your working.

(2 marks)

- 2 Write the recurring decimal $0.\dot{7}$ as a fraction.

(1 mark)

- 3 Write the recurring decimal $0.\dot{2}\dot{3}$ as a fraction.

(1 mark)

- 4 Write the recurring decimal $0.\dot{6}\dot{3}$ as a fraction.

(1 mark)

- 5 Write the recurring decimal $0.\dot{8}$ as a fraction.

(1 mark)