N46 Converting FDP Calc

OCR

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2 (a) Change $\frac{5}{8}$ to a decimal.

.....[1]

(b) Change 80% to a fraction in its lowest terms.

.....[2]

(c) Write these in order, starting with the smallest.

43% 0.4 $\frac{3}{7}$

 $\sqrt{0.2}$

2 (a) Change $\frac{5}{8}$ to a decimal.

(b) Change 80% to a fraction in its lowest terms.

(c) Write these in order, starting with the smallest.

$$\frac{3}{7}$$

0.43 0.4 $\frac{3}{7}$ $\sqrt{0.2}$ 0.4 $\frac{3}{7}$ 43/., 67 0.4 0.4 0.4 0.4 0.4 0.4 0.4

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2	(a)	Use one of these symbols $<$, $>$ or $=$ to make each statement true.
---	-----	--

(i) 17.6 17.06

[1]

(ii) $0.9 \dots \frac{45}{50}$

[1]

(b) Round 184329 to the nearest hundred.

(b)

(c) Write $\frac{5}{8}$ as a decimal.

(c)

.....[1]



(i) 17.6 17.06

17.60

[1]

(ii) $0.9 \dots \frac{45}{50} \rightarrow$

[1]

- (b) Round 184 329 to the nearest hundred.
- (b)

184300

(c) Write $\frac{5}{8}$ as a decimal.

(c)

, 0.625 _[

1 (a) Complete this table of fractions, decimals and percentages.

Fraction		Decimal		Percentage
1/2	=	0.5	=	50%
	=	0.27	=	
<u>4</u> 5	=		=	
	=		=	3%

[3]

(b) Write 45% as a fraction in its simplest form.

b)[2]

(c) Alan and Brian share a sum of money in the ratio 1:4.

What fraction of the money does Alan receive?

(c)[1]

1 (a) Complete this table of fractions, decimals and percentages.

Fraction		Decimal		Percentage
1/2	=	0.5	=	50%
27/100	=	0.27	=	27%
$\frac{4}{5} = \frac{8}{10}$	=	0.8	=	80%
3/100	=	0.03	=	3%

[3]

(b) Write 45% as a fraction in its simplest form.

20 [2]

(c) Alan and Brian share a sum of money in the ratio 1:4.

What fraction of the money does Alan receive?



(a) Use one of these symbols <, > or = to make each statement true.

(i)
$$\frac{1}{4}$$
 0.25

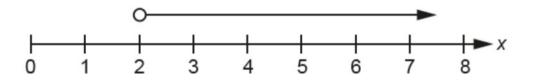
[1]

(ii)
$$0.66 \dots \frac{2}{3}$$

[1]

[1]

(b) Write down the inequality for *x* that is shown on this number line.



4 (a) Use one of these symbols <, > or = to make each statement true.

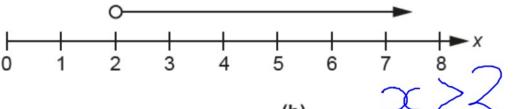
(i)
$$\frac{1}{4}$$
 0.25

[1]

[1]

[1]

(b) Write down the inequality for *x* that is shown on this number line.



(b)

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5 Write the following in order of size, smallest first.

 $\frac{7}{26}$ 2.7

......[2] smallest

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5 Write the following in order of size, smallest first.

 $\frac{7}{26}$ 2.7

0.28 0.2692 2.7

7 26 28/ 2.7 smallest This is her working.

$$\frac{3}{8}$$
 is $\frac{1}{8}$ more than $\frac{1}{4}$

$$\frac{1}{4}$$
 is the same as 0.14

$$\frac{1}{8}$$
 is $\frac{1}{4} \times 2 = 0.28$

so
$$\frac{3}{8}$$
 = 0.14 + 0.28 = 0.42

Where a line of working is wrong, write the correct working beside it.

9 (a) Elsie changes
$$\frac{3}{8}$$
 to a decimal.

This is her working.

$$\frac{3}{8}$$
 is $\frac{1}{8}$ more than $\frac{1}{4}$

$$\frac{1}{4}$$
 is the same as 0.14

$$\frac{1}{8}$$
 is $\frac{1}{4} \times 2 = 0.28$

so
$$\frac{3}{8}$$
 = 0.14 + 0.28 = 0.42

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$$x = 0.25$$

Where a line of working is wrong, write the correct working beside it.

[3]

2	(a)	Write	these	fractions	as	decima	ls

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N46 (i) $\frac{9}{10}$

(a)(i)[1]

(ii) $\frac{3}{4}$

(ii)[1]

(b) A plank of wood 2.4 m long is cut into 6 pieces of equal length.

N31 How long is each piece?

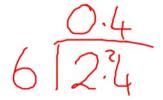
(b) m [2]

2 (a) Write these fractions as decimals.

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- N43 (i) $\frac{9}{10}$
 - (ii) $\frac{3}{4}$ 0.75 N45 4 3.302
- (a)(i) [1]

- (ii)[1]
- (b) A plank of wood 2.4 m long is cut into 6 pieces of equal length.
- N31 How long is each piece?





(b)

2	(a) Write down.		Created by W Neill
	(i) 3091 rounded to the nearest hundred N25		
		(a)(i)	[1]
	(ii) 3% as a decimal N46		
		(ii)	[1]
	(iii) the cube root of 27		
		(iii)	[1]

(i) 3091 rounded to the nearest hundred

N25



(a)(i)

3100

(ii) 3% as a decimal

N46

(ii) U·O 5

(iii) the cube root of 27

119

$$3\sqrt{27}$$

 $3\times 3\times 3=27$

3

. [1]

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	0,00,00	-,	•	

3 (a) Write $\frac{3}{8}$ as a decimal.

N46

(a)[1]

(b) Write 42% as a fraction. Give your answer in its simplest form.

N46

(b)[2]

3 (a) Write $\frac{3}{8}$ as a decimal.

N46

(a) · 5 / 5 [1]

(b) Write 42% as a fraction. Give your answer in its simplest form.

N46

42 <u>- 21</u> 100 <u>- 50</u>

(b) [2

Edexcel

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4 Write $\frac{1}{5}$ as a decimal.

.....

(Total for Question 4 is 1 mark)

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4 Write $\frac{1}{5}$ as a decimal.

 $\bigcirc \cdot 2$

(Total for Question 4 is 1 mark)

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2 Write 8% as a decimal.	
2 Write 6/0 as a decimal.	
N46	
	(Total for Question 2 is 1 mark)
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2 Write 8% as a decimal.

N46



(Total for Question 2 is 1 mark)

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6 Here are four fractions.

N34 N46 $\frac{3}{4}$

 $\frac{5}{7}$

 $\frac{19}{25}$

 $\frac{11}{15}$

Write the fractions in order of size. Start with the smallest fraction.

(Total for Question 6 is 2 marks)

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6 Here are four fractions.

N34 N46 $\frac{3}{4}$

Decimals

fractions in order of size

0.714 0.76 $\frac{5}{7}$ $\frac{19}{25}$

0.73 $\frac{11}{15}$

Write the fractions in order of size.

Start with the smallest fraction.

5 11 3 19 7 , 15 , 4 , 25

(Total for Question 6 is 2 marks)

AQA

17 Circle the fraction equal to 0.1%

N46

[1 mark]

 $\frac{1}{10}$

100

1000

1 10 000

17

Circle the fraction equal to 0.1%

N46

[1 mark]

$$1/. = 1/000$$
 $0.1/. = 1/000$

					Video created by W Neill
12	Put these probabilities	in order, starti	ing with the least	likely.	
N46 N3	44%	<u>1</u> 4	0.404	<u>4</u> 10	[2 marks]
	Answer		,		

Put these probabilities in order, starting with the least likely.

Nyb

N3

Put these probabilities in order, starting with the least likely. $\frac{1}{4} \quad 0.404 \quad \frac{4}{10}$ [2 marks]

Answer $\frac{1}{4}$, $\frac{1}$

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3 Circle the decimal that is greater than $\frac{1}{5}$ and less than $\frac{1}{4}$

N46 [1 mark]

0.152 0.200 0.215 0.251

Circle the decimal that is greater than $\frac{1}{5}$ and less than $\frac{1}{4}$

N46 0.2 0.2 [1 mark]

0.215 0.251 X

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2 Circle the decimal that is greater than $\frac{3}{10}$ and less than $\frac{2}{5}$

N46 [1 mark]

0.32 0.035 0.4 0.24

2 Circle the decimal that is greater than $\frac{3}{10}$ and less than $\frac{2}{5}$

N46

0.30

0.40

[1 mark]



0.035

0.4

0.24

12 A takeaway sells 10-inch pizzas and 12-inch pizzas.

Here is some information about the numbers sold in two weeks.

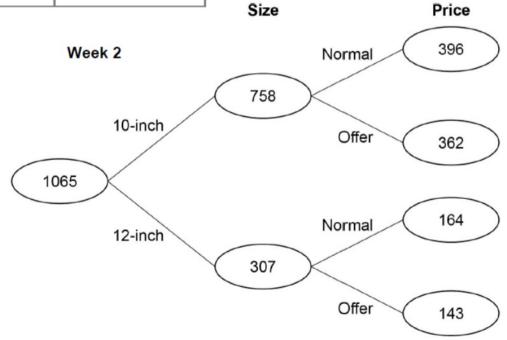
Week 1

10-inch	512
12-inch	231
Total	743

12 (a) In each week a proportion of the pizzas sold were 10-inch.

N46 In which week was this proportion greater?
Show working to support your answer.

[2 marks]



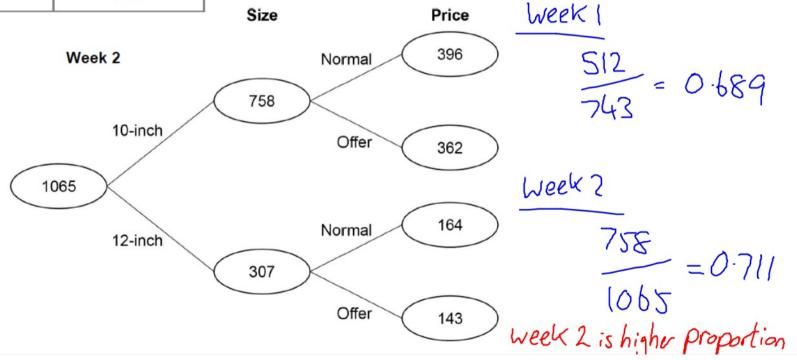
12 A takeaway sells 10-inch pizzas and 12-inch pizzas.

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Week 1

10-inch	512
12-inch	231
Total	743

- 12 (a) In each week a proportion of the pizzas sold were 10-inch.
 - N46 In which week was this proportion greater?
 Show working to support your answer. [2 marks]



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4 Circle the fraction equal to 0.12

[1 mark]

$$\frac{3}{25}$$

4 Circle the fraction equal to 0.12

[1 mark]

$$\frac{3}{25}$$

$$\frac{12}{100} = \frac{6}{50} = \frac{3}{25}$$

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How many minutes is 225 seconds?
Circle your answer.

R4a N46

[1 mark]

$$2\frac{5}{12}$$

$$2\frac{1}{4}$$

$$3\frac{1}{4}$$

$$3\frac{3}{4}$$

[1 mark]

How many minutes is 225 seconds?
Circle your answer.

R4a N46

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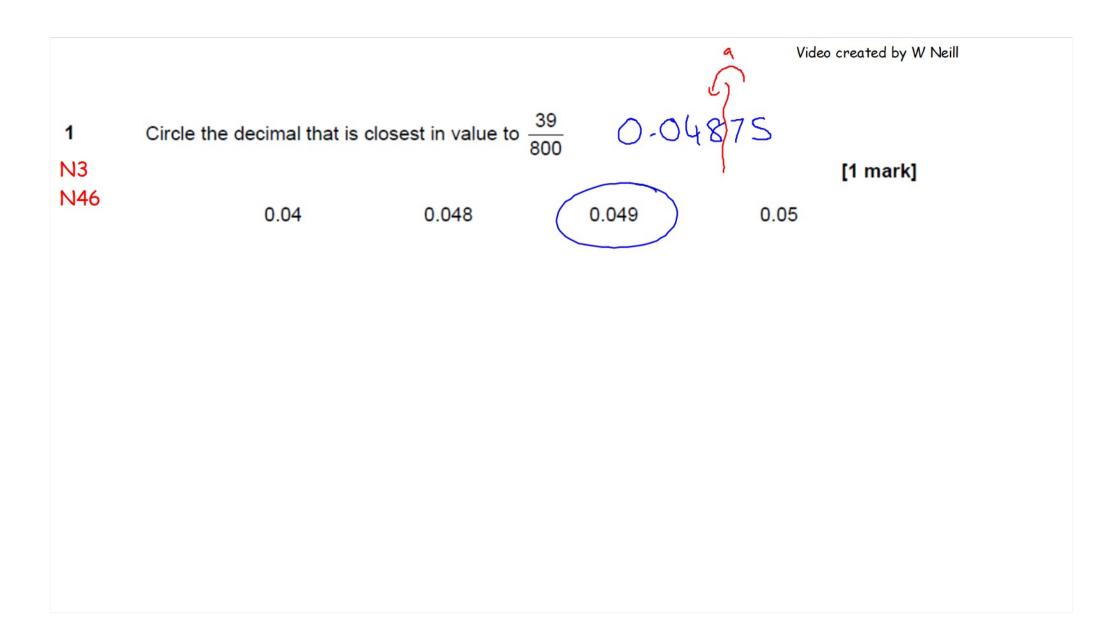
2-

 $3\frac{1}{4}$

 $3\frac{3}{4}$

 $\frac{225}{60} = \frac{45}{60}$

1 Circle the decimal that is closest in value to $\frac{39}{800}$ N3 [1 mark] N46 0.04 0.048 0.049 0.05



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1 Circle the fraction that is equivalent to 3.875

[1 mark]

$$\frac{15}{4}$$

1 Circle the fraction that is equivalent to 3.875

[1 mark]

$$\frac{15}{4}$$

$$\left(\begin{array}{c} 31\\ 8 \end{array}\right)$$

1 Circle the decimal that is closest in value to 11/20

N3
N46

0.56

0.6

0.525

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[1 mark]

[1 mark]

1 Circle the decimal that is closest in value to $\frac{11}{20}$

N3 N46 alue to $\frac{1}{20}$ 0.5

0.60

0.525 × 0.5

X