N32N33 Equivalent & Simplifying Fractions

OCR

Created	by	W	Nei
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10 (a) Write $\frac{16}{112}$ in its lowest terms.

(a).....[1]

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10 (a) Write $\frac{16}{112}$ in its lowest terms.

-

9	Danisha is g	oing to visit	two of these places.			Video created by W Neill	
	London Eye	(LE) Buc	kingham Palace (BP)	Tower of Lo	ndon (TL)	British Museum (BM)	
1	One co	mbination is	tions of these places the already shown in the trail the rows. [2]		sit.		
	LE	BP					
			(b) What fraction of	of the combina	ations includ	de the London Eye (LE)?	
			N32				
			-				
				(b)		[1]	
			-				

9	Danisha is	going to	visit two of these	places.
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London Eye (LE) Buckingham Palace (BP) Tower of London (TL) British Museum (BM)

[2]

(a) List all the combinations of these places that she can visit. One combination is already shown in the table.

N49 (ou may not need all the rows.

T

LE	BP ✓
LE	TLV
LE	BM /
BP	TL
BP	BM
TL	BM

(b) What fraction of the combinations include the London Eye (LE)?

N32

(b)

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4 Jeat is growing carrots from seed in his garden. He plants 28 carrot seeds but only 12 grow.

Jeat says

The probability of one of my carrot seeds growing is $\frac{3}{7}$.

(a) Use Jeat's result to show that he is correct.

[1]

N32

4 Jeat is growing carrots from seed in his garden. He plants 28 carrot seeds but only 12 grow.

Jeat says

The probability of one of my carrot seeds growing is $\frac{3}{7}$.

(a) Use Jeat's result to show that he is correct.

[1]

N32

 $\frac{12}{28} = \frac{3}{7}$ frac

Edexcel

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15 There are 360 golf balls in a bucket. There are

60 yellow golf balls 50 orange golf balls 40 pink golf balls

The rest of the golf balls are white.

What fraction of the golf balls are white? Give your fraction in its simplest form.

(Total for Question 15 is 3 marks)

15 There are 360 golf balls in a bucket. There are

60 yellow golf balls 50 orange golf balls 40 pink golf balls

The rest of the golf balls are white.

What fraction of the golf balls are white? Give your fraction in its simplest form.

(Total for Question 15 is 3 marks)

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1 $\frac{3}{5}$ of the people at a tennis club are women.

The rest of the people are men.

What fraction of the people are men?

(Total for Question 1 is 1 mark)

1 $\frac{3}{5}$ of the people at a tennis club are women.

The rest of the people are men.

What fraction of the people are men?





(Total for Question 1 is 1 mark)

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3 Here is a list of fractions.

$$\frac{3}{9}$$
 $\frac{5}{15}$ $\frac{7}{21}$ $\frac{9}{30}$ $\frac{15}{45}$

One of these fractions is **not** equivalent to $\frac{1}{3}$

Which fraction?

(Total for Question 3 is 1 mark)

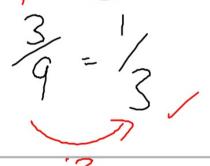
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 $\frac{5}{15}$ $\frac{7}{21}$ $(\frac{9}{30})$ $\frac{15}{45}$

One of these fractions is **not** equivalent to $\frac{1}{3}$

Which fraction?



9/30

(Total for Question 3 is 1 mark)

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5 Write $\frac{6}{15}$ as a fraction in its simplest form.

N33

(Total for Question 5 is 1 mark)

5 Write $\frac{6}{15}$ as a fraction in its simplest form.

N33

6 = 2

3

(Total for Question 5 is 1 mark)

5 60 students were asked how they get to school.

The table shows the results.

	Bus	Walk	Car	Bicycle
Number of students	15	27	12	6

(a) What fraction of the 60 students did not walk to school?

(2)

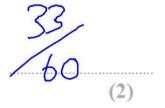
5 60 students were asked how they get to school.

The table shows the results.

	Bus	Walk	Car	Bicycle
Number of students	15	27	12	6

(a) What fraction of the 60 students did **not** walk to school?

33



4 Here is a list of four fractions.

N32

$$\frac{4}{16}$$

$$\frac{2}{8}$$

$$\frac{15}{60}$$

$$\frac{3}{9}$$

One of these fractions is **not** equivalent to $\frac{1}{4}$

Write down this fraction.

.....

(Total for Question 4 is 1 mark)

Video created by W Neill

4 Here is a list of four fractions.

N32

One of these fractions is $\underline{\underline{not}}$ equivalent to $\frac{1}{4}$

Write down this fraction.

3/9

(Total for Question 4 is 1 mark)



11 Last year the cost of a season ticket for a football club was £560 This year the cost of a season ticket for the club has been increased to £600

Write down the increase in the cost of a season ticket as a fraction of last year's cost.

N32

.....

(Total for Question 11 is 2 marks)

11 Last year the cost of a season ticket for a football club was £560 This year the cost of a season ticket for the club has been increased to £600

Write down the increase in the cost of a season ticket as a fraction of last year's cost.

N32

Z40

£560

40

(Total for Question 11 is 2 marks)

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11 Here are some fractions.

$$\frac{9}{12}$$

$$\frac{6}{8}$$

$$\frac{18}{24}$$

$$\frac{10}{16}$$

$$\frac{9}{12}$$
 $\frac{6}{8}$ $\frac{18}{24}$ $\frac{10}{16}$ $\frac{15}{20}$

One of these fractions is **not** equivalent to $\frac{3}{4}$

(a) Which fraction?

N32

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11 Here are some fractions.

$$x_3 \frac{9}{12}$$
 $x_2 \frac{6}{8}$ $x_6 \frac{18}{24}$ $x_4 \frac{10}{16}$ $x_4 \frac{10}{20}$

One of these fractions is **not** equivalent to $\frac{3}{4}$

(a) Which fraction?

N32



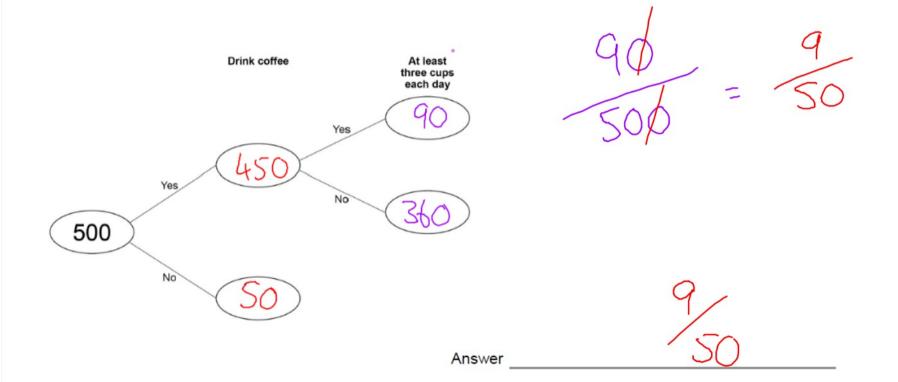
10

AQA

		Video created by W Neill
6 (b) N33	What fraction of the 500 people drink at least three cups of coffee each day? Give your answer in its simplest form.	[2 marks]
	Answer	

- 6 (b) What fraction of the 500 people drink at least three cups of coffee each day?
- N33 Give your answer in its simplest form.

[2 marks]



		V: 1
		Video created by W Neill
25 R1	The height of Zak is 1.86 metres. The height of Fred is 1.6 metres.	
N33	Write the height of Zak as a fraction of the height of Fred. Give your answer in its simplest form.	[3 marks]
	Answer	

Video created by W Neill

The height of Zak is 1.86 metres.

The height of Fred is 1.6 metres.

R1

N33 Write the height of Zak as a fraction of the height of Fred.

Give your answer in its simplest form.

[3 marks]

 $\frac{2ak}{Fred} = \frac{1.86}{1.6} = \frac{186}{160}$

= 93
80

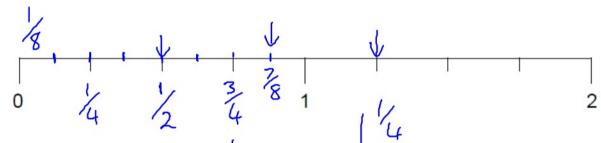
Answer

Video created by W Neill Work out the fraction that is halfway between $\frac{1}{2}$ and $1\frac{1}{4}$ 9 N32 N42 [3 marks] Answer _____

9

Work out the fraction that is halfway between $\frac{1}{2}$ and $1\frac{1}{4}$

N32 N42



[3 marks]

Answer



The table shows the number of messages Sam received each day for five days. Video created by W Neill

	Messages		
	Number of emails	Number of texts	
Monday	12	5	
Tuesday	8	6	
Wednesday	10	3	
Thursday	6	6	
Friday	12	4	

9 (b) In total, what fraction of the messages were emails?

Give your answer in its simplest form. [3 marks]

N32

Answer _____

The table shows the number of messages Sam received each day for five days. Video created by W Neill 9

	Messages		
	Number of emails	Number of texts	
Monday	12	5	
Tuesday	8	6	
Wednesday	10	3	
Thursday	6	6	
Friday	12	4	

9 (b) In total, what fraction of the messages were emails?

Give your answer in its simplest form.

[3 marks]

N32

Answer