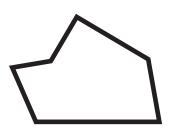
Big Maths Beat That!: Teacher Notes

SAFE Challenge 15			
	Step Location in the SAFE framework		Title of Step
	Progress Drive	Step No.	
Q1	Shape: 2D Shapes	23	I can sort polygons by side number and identify specific triangles and quadrilaterals
Q2	Amounts: Amounts of Space	20	I can convert litres to millilitres
Q3	Amounts: Amounts of Time	25	l can calculate time gaps within an hour (5 min)
Q4	Amounts: Amounts of Time	26	I can calculate time gaps across an hour (5 min)
Q5	Amounts: Amounts of Time	27	I can calculate time gaps across several hours (5 min)
Q6	Fractions: Fractions of a Set	12	I use all tables Learn Its to find fractions of amounts
Q7	Fractions: Fractions: Counting	13	I can count in fifths
Q8	Fractions: Fractions: Counting	16	I can record my hundredths with decimals too
Q9	Fractions: Fractions: Learn Its	7	I know 1/2 = 0.5, 1/10 = 0.1, 1/4 = 0.25 3/4 = 0.75, 1/100=0.01
Q10	Fractions: Fractions: It's Nothing New	7	l can multiply unit fractions (beyond 1)

Improper fraction

1



Which of these statements are true?:

6 sides

Is a trapezium

All internal angles are the same

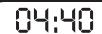
All internal angles are different

B

How long from?

04:05

to



How long from?

03:40

to

04:25

2

4 L = ml

$$4\frac{1}{2}L = ml$$

How long from?

03:20

to

06:35

 $\frac{1}{2}$ of 63 =

$$\frac{4}{9}$$
 of 63 =

8

7

0.47 as a proper fraction =

38 as a decimal =

(5) Write these fractions as decimal equivalents

$$\frac{1}{2}$$
 =

$$\frac{1}{10} =$$

$$\frac{1}{u} =$$

10

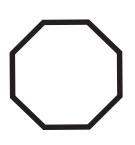
$$4 \times \frac{1}{3} =$$



COT LAST SCOLLEGI

DAVE I BEAT TOAT?!





Tick if true:

- 6 sides
- 8 sides

All internal angles are the same

All internal angles are different

B

How long from?

05:50

to

02:35

How long from?

08:80

09:05

2

$$3\frac{1}{2}L = ml$$

3.5 L = ml



How long from?

05:10

to

09:05

(3)

$$\frac{3}{8}$$
 of 48 =

of 48 =

(3)

7

0.02 as a proper fraction =

Mixed number

Improper fraction

as a decimal =

9 Write these fractions as decimal equivalents

$$\frac{1}{10} =$$

$$\frac{1}{2}$$
 =

10

$$8 \times \frac{1}{4} =$$



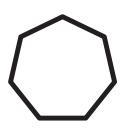
COT LAST SCOLLEGI

CAVE I BEAT TOAT?!



Improper fraction

1



Tick if true:

7 sides

5 sides

All internal angles are the same

Is a pentagon

B

How long from?

09:30

to



How long from?

10:15

to

#:35

2

$$6\frac{1}{4}L = ml$$

B

How long from?

01:10

to

05:30

(3)

$$\frac{1}{6}$$
 of 36 =

$$\frac{4}{6}$$
 of 36 =

<u>(3)</u>

7

0.62 as a proper fraction =

 $\frac{11}{100}$ as a decimal =

(5) Write these fractions as decimal equivalents

$$\frac{1}{10} =$$

10

$$5 \times \frac{1}{3} =$$



MY LAST SCORE?!

CAVE I BEAT TOAT?!



Improper fraction

1



Tick if true:

- 8 sides
- 5 sides

Is a regular polygon

Is a pentagon

B How long from?

10:35

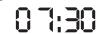
to



How long from?

05:30

to



2

$$4\frac{1}{2}L = ml$$

$$4\frac{3}{4}L = ml$$

How long from?

03:15

to

06:45

 $\frac{1}{7}$ of 56 =

$$\frac{5}{7}$$
 of 56 =

<u>(3)</u>

7

0.17 as a proper fraction =

19 100 as a decimal =

(5) Write these fractions as decimal equivalents

$$\frac{1}{2}$$
 =

$$\frac{3}{u} =$$

10

$$3 \times \frac{1}{2} =$$



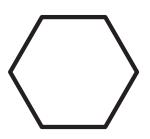
MY LAST SCOBER

CAVE I BEAT TOATS!



Improper fraction

1



Tick if true:

6 sides

5 sides

Is a hexagon

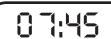
7 sides \square

B

How long from?

07:05

to



How long from?

08:20

to

09:15

2

8 L = ml

$$8\frac{1}{4}L = ml$$

$$8 \frac{1}{2} L = ml$$

3

How long from?

07:05

to

09:55

(3)

$$\frac{1}{4}$$
 of 32 =

$$\frac{3}{4}$$
 of 32 =

<u>(8)</u>

7

0.43 as a proper fraction =

 $\frac{67}{100}$ as a decimal =

(5) Write these fractions as decimal equivalents

$$\frac{1}{2}$$
 =

$$\frac{1}{10} =$$



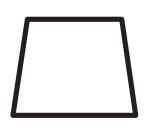
 $9 \times \frac{1}{7} =$



MY LAST SCOBER!

COUE I BEAT TOATS!





Tick if true:

4 sides

7 sides

Is a trapezium

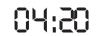
Is a hexagon

B

How long from?

04:15

to



How long from?

05:10



2

$$9\frac{1}{2}L = ml$$



How long from?

03:25

to

07:15

(3)

$$\frac{1}{7}$$
 of 49 =

$$\frac{5}{7}$$
 of 49 =

(3)

7

0.69 as a proper fraction =

Mixed number

Improper fraction

as a decimal =

9 Write these fractions as decimal equivalents

$$\frac{1}{10} =$$

$$\frac{1}{100}$$
 =

10

$$7 \times \frac{1}{5} =$$



MY LAST SCOBER

DAVE I BEAT TOATSI



Improper fraction

1



Tick if true:

8 sides

7 sides

Is a rhombus

Is an octagon

B

How long from?

09:30

to

09:55

How long from?

08:50

to

09:05

2

3 L = ml

 $3\frac{3}{4}L = ml$

3.5 L = ml

3

How long from?

01:10

to

05:40

(3)

 $\frac{1}{3}$ of 27 =

 $\frac{2}{3}$ of 27 =

8

7

0.21 as a proper fraction =

37 100 as a decimal =

(5) Write these fractions as decimal equivalents

3 =

 $\frac{1}{2}$ =

 $\frac{1}{100}$ =

100

 $6 \times \frac{1}{u} =$



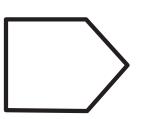
MY LAST SCOBER

COVE I BEAT TOATS!



Improper fraction

1



Tick if true:

7 sides \square

5 sides

Is a pentagon

Is a square

B How long from?

12:05

to

(2:40

How long from?

04:30

to

05:35

2

$$2\frac{1}{2}L = ml$$

B How long from?

09:05

to

 $\frac{1}{2}$ of 56 =

$$\frac{3}{2}$$
 of 56 =

(3)

7

0.62 as a proper fraction =

 $\frac{71}{100}$ as a decimal =

(5) Write these fractions as decimal equivalents

$$\frac{1}{2}$$
 =

 $\frac{1}{10} =$

100=

10

 $7 \times \frac{1}{6} =$



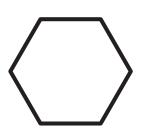
MY LAST SCODE?!

CAVE I BEAT TOATS



Improper fraction

1



Tick if true:

- 8 sides
- 6 sides

Is a hexagon

Is a triangle

B

How long from?

03:05

to

03:25

How long from?

08:05

to

09:20

2

$$5\frac{1}{2}L = ml$$

$$5\frac{3}{4}L = ml$$

5

How long from?

04:55

to

05:10

(3)

$$\frac{1}{2}$$
 of 42 =

$$\frac{4}{7}$$
 of 42 =

(3)

7

0.06 as a proper fraction =

9 100 as a decimal =

(5) Write these fractions as decimal equivalents

$$\frac{1}{u} =$$

10

$$8 \times \frac{1}{5} =$$



COT LAST SCOLLEGI

COVE I BEAT TOAT?



Improper fraction

1



Tick if true:

7 sides

4 sides

Is a heptagon

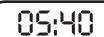
Is an octagon

B

How long from?

05:10

to



How long from?

05:10

to



2

4 L = ml

$$4\frac{1}{4}L = ml$$

B How long from?

02:40

to

05:45

 $\frac{1}{2}$ of 36 =

$$\frac{5}{6}$$
 of 36 =

(3)

7

0.91 as a proper fraction =

 $\frac{44}{100}$ as a decimal =

(5) Write these fractions as decimal equivalents

$$\frac{1}{u} =$$

$$\frac{1}{2}$$
 =

10

$$6 \times \frac{1}{4} =$$



MY LAST SCOBER

CAVE I BEAT TOATS!



B



Which of these statements are true?:

6 sides

Is a trapezium

All internal angles are the same

All internal angles are different

How long from?

04:05

to



00:35

How long from?

03:40

to

04:25

00:45

2

4.5 L = 4500 ml

(3) How long from?

03:20

to

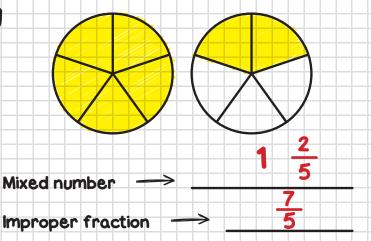
05:35

03:15

 $\frac{1}{9}$ of 63 = 7

 $\frac{4}{9}$ of 63 = 28

7



 $0.47 \text{ as a proper fraction} = \frac{47}{100}$

 $\frac{38}{100} \text{ as a decimal = } 0.38$

Write these fractions as decimal equivalents

$$\frac{1}{2} = 0.5$$
 $\frac{1}{10} = 0.1$ $\frac{1}{4} = 0.25$

10

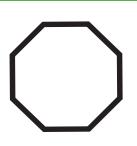
$$4 \times \frac{1}{3} = \frac{4}{3}$$



MY LAST SCORE?!

COVE I BEAT TOAT?





Tick if true:

6 sides

8 sides

All internal angles are the same



All internal angles are different

B

How long from?

02:20

to



00:15

How long from?

08:20

to

09:05

00:45

2

$$3\frac{1}{2}$$
 L = **3500** ml

5

How long from?

06:10

to

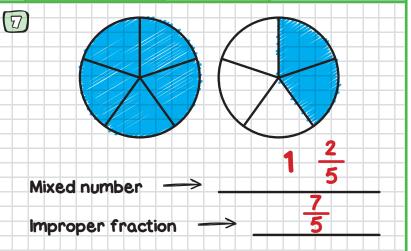
09:05

02:55

3

$$\frac{1}{8}$$
 of $48 = 6$

$$\frac{5}{8}$$
 of $48 = 30$



8

0.02 as a proper fraction =

<u>2</u> 100

72 100

as a decimal =

0.72

(2) Write these fractions as decimal equivalents

$$\frac{3}{4} = 0.75 \frac{1}{10} = 0.1 \frac{1}{2} = 0.5$$

100

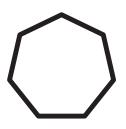
$$8 \times \frac{1}{4} = \frac{8}{4}$$



COT LAST SCOLLEGI

DAVE I BEAT TOATS!





Tick if true:

7 sides

5 sides

All internal angles are the same

Is a pentagon

B How long from?

09:30

to



00:20

How long from?

0:5

to

#:35

01:20

2

6.5 L = 6500 ml

(3) How long from?

01:10

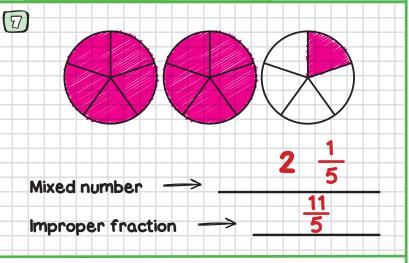
to

05:30

04:20

 $\frac{1}{6}$ of 36 = 6

 $\frac{4}{6}$ of 36 = 24



0.62 as a proper fraction =

 $\frac{11}{100} \text{ as a decimal} = 0.11$

(2) Write these fractions as decimal equivalents

 $\frac{3}{4} = 0.75 \frac{1}{100} = 0.01 \frac{1}{10} = 0.1$

100

$$5 \times \frac{1}{3} = \frac{5}{3}$$



MY LAST SCORE?!

CAVE I BEAT TOATS





Tick if true:

8 sides

5 sides

Is a regular polygon

Is a pentagon

B How long from?

(0:35) to

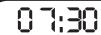
· (10:55

00:20

How long from?

06:30

to



01:00

2

$$4\frac{1}{2}L = 4500 \text{ ml}$$

$$4\frac{3}{4}L = 4750 \text{ ml}$$

How long from?

03:15

to

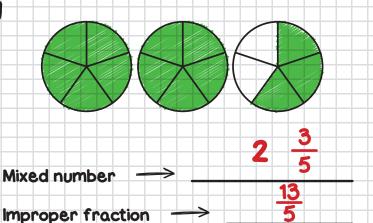
06:45

03:30

 $\frac{1}{7}$ of 56 = 8

$$\frac{5}{7}$$
 of 56 = 40

7



 $0.17 \text{ as a proper fraction} = \frac{17}{100}$

 $\frac{19}{100}$ as a decimal = 0.19

Write these fractions as decimal equivalents

$$\frac{1}{10} = 0.1$$
 $\frac{1}{2} = 0.5$ $\frac{3}{4} = 0.75$

100

$$3 \times \frac{1}{2} = \frac{3}{2}$$



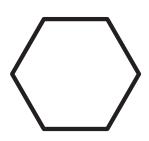
COT LAST SCOLLEGI

DAVE I BEAT TOATS!



Improper fraction

1



Tick if true:

6 sides

5 sides

Is a hexagon

7 sides

B

How long from?

07:05

to



00:40

How long from?

08:80

09:15

00:55

2

$$8\frac{1}{2}L = 8500 \text{ ml}$$

(B)

How long from?

07:05

to

09:55

02:50

(3) $\frac{1}{4}$ of 32 = 8

$$\frac{3}{u}$$
 of 32 = 24

(3)

7

0.43 as a proper fraction =

0.67 as a decimal =

(2) Write these fractions as decimal equivalents

$$\frac{3}{4} = 0.75 \frac{1}{2} = 0.5 \frac{1}{10} = 0.1$$

100

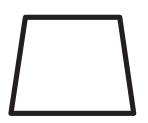
$$9 \times \frac{1}{7} = \frac{9}{7}$$



MY LAST SCODE?!

MAVE I BEAT TOATS!





Tick if true:

4 sides 👿

7 sides \square

Is a trapezium 🔽

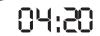
Is a hexagon

B

How long from?

04:15

to



00:05

How long from?

05:10

to



01:15

2

9.5 L = 9500 ml



How long from?

03:25

to

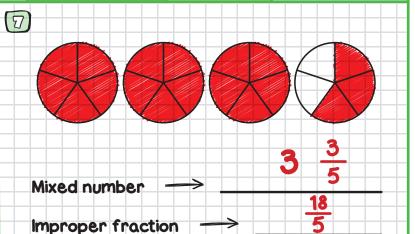
07:15

03:50



$$\frac{1}{7}$$
 of 49 = $\frac{7}{7}$

 $\frac{5}{7}$ of 49 = 35



8

0.69 as a proper fraction =

<u>69</u>

96

as a decimal =

0.96

(5) Write these fractions as decimal equivalents

 $\frac{1}{u} = 0.25 \frac{1}{10} = 0.1 \frac{1}{100} = 0.01$



$$7 \times \frac{1}{5} = \frac{7}{5}$$



MY LAST SCOBER

COUE I DEAT TOATS!



Improper fraction

1



Tick if true:

8 sides 👿

7 sides

Is a rhombus

Is an octagon

B

How long from?

09:30

to



00:25

How long from?

08:50

to

09:05

00:15

2

5

How long from?

01:10

to

05:40

04:30

 $\frac{1}{3}$ of 27 =

$$\frac{2}{3}$$
 of 27 = 18

8

7

0.21 as a proper fraction =

37 100 as a decimal =

Write these fractions as decimal equivalents

0.37

$$\frac{3}{4} = 0.75 \frac{1}{2} = 0.5 \frac{1}{100} = 0.01$$

100

(2)

$$6 \times \frac{1}{4} = \frac{6}{4}$$



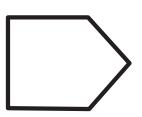
MY LAST SCODE?!

CAVE I BEAT TOATS!



SAFE 15

1



Tick if true:

7 sides

5 sides 👿

Is a pentagon

Is a square

B

How long from?

12:05

to

12:40

00:35

How long from?

04:30

to

05:35

01:05

2

2 L = 2000 ml

$$2\frac{1}{2}L = 2500 \text{ ml}$$

3

How long from?

09:05

to

||:||

02:05

<u>(3)</u>

 $\frac{1}{8}$ of 56 = $\frac{7}{8}$

$$\frac{3}{8}$$
 of 56 = 21

<u>(3)</u>

7

0.62 as a proper fraction =

 $\frac{71}{100}$

Mixed number

Improper fraction

as a decimal =

0.71

(2) Write these fractions as decimal equivalents

$$\frac{1}{2} = 0.5$$
 $\frac{1}{10} = 0.1$ $\frac{1}{100} = 0.01$

10

$$7 \times \frac{1}{6} = \frac{7}{6}$$



COT LAST SCOLLEGI

DAVE I BEAT TOATS!





Tick if true:

8 sides

6 sides 👿

Is a hexagon

Is a triangle

B

How long from?

03:05

to



00:20

How long from?

08:05

to

09:20

01:15

2

$$5\frac{1}{2}L = 5500 \text{ ml}$$

$$5\frac{3}{4}L = 5750 \text{ ml}$$

5

How long from?

04:55

to

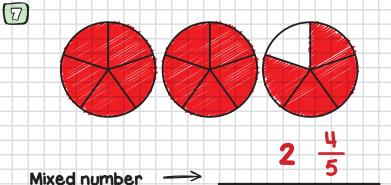
05:10

01:15

 $\frac{1}{7}$ of 42 =

$$\frac{4}{7}$$
 of $42 = 24$

nl —



Improper fraction

8

0.06 as a proper fraction =

 $\frac{9}{00}$ as a decimal = 0.09

Write these fractions as decimal equivalents

 $\frac{1}{100}$ = 0.01 $\frac{3}{4}$ = 0.75 $\frac{1}{4}$ = 0.25

100

$$8 \times \frac{1}{5} = \frac{8}{5}$$



MY LAST SCODE?!

COVE I BEAT TOATS!



Improper fraction

1



Tick if true:

7 sides

4 sides

Is a heptagon

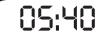
Is an octagon

B

How long from?

05:10

to



00:30

How long from?

05:10



01:05

2

$$4\frac{1}{2}L = 4500 \text{ ml}$$

(B)

How long from?

02:40

to

05:45

03:05

(3) $\frac{1}{6}$ of 36 = 6

$$\frac{5}{6}$$
 of 36 = 30

(3)

7

0.91 as a proper fraction =

0.44 as a decimal =

(3) Write these fractions as decimal equivalents

$$\frac{1}{10} = 0.1$$
 $\frac{1}{4} = 0.25$ $\frac{1}{2} = 0.5$

100

$$6 \times \frac{1}{4} = \frac{6}{4}$$



MY LAST SCORE?!

DAVE I BEAT TOATS!

