Big Maths Beat That!: Teacher Notes

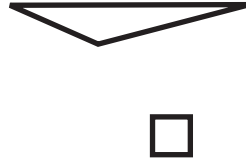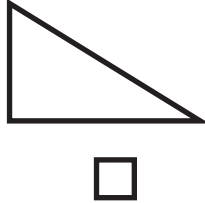|	SAFE Challenge 13		
	Step Location in the SAFE framework		**Title of Step**
	Progress Drive	**Step No.**	
Q1	Shape: 2D Shapes	21	I know 'The Triangle Family'
Q2	Amounts: Amounts of Distance	20	I can find the perimeter in a variety of 2D shapes
Q3	Amounts: Amounts of Mass	16	I can convert kilograms to grams
Q4	Amounts: Amounts of Money	15	I can use decimal notation for money
Q5	Amounts: Amounts of Time	23	I can calculate the number of days
Q6	Amounts: Amounts of Time	24	I can convert periods of time
Q7	Amounts: Amounts of Time: Telling the Time	16	I can convert time from 24-hour clock to analogue
Q8	Fractions: Fractions of a Whole	16	I can use equivalence to find any simple fraction
Q9	Fractions: Fractions: It's Nothing New	5	I can add and subtract fractions with the same denominator (beyond 1)
Q10	Fractions: Fractions: Calculation	4	I can use my calculation skills to add/subtract fractions that make a whole number

1 Tick the isosceles triangle
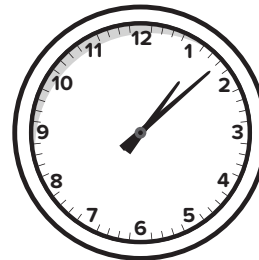
☐ ☐ ☐

2 What is the perimeter?

5cm

_____ cm

3
$4 \text{ kg} = $ _____ g

$4 \frac{1}{2} \text{ kg} = $ _____ g

$4 \frac{1}{4} \text{ kg} = $ _____ g

4 Use decimal notation to show...

£1 and 46p =

374p =

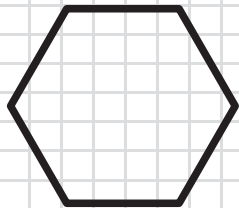£8 =

5 How many days from September 5th until October 22nd?

7 Which of these 3 analogue clocks show the equivalent time?

15:08
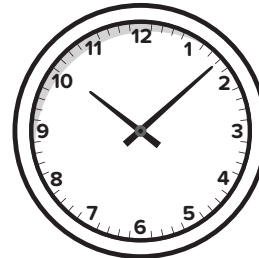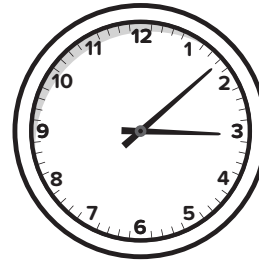
6
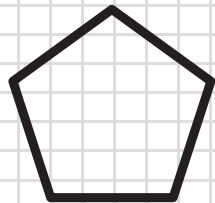4 hours = _____ minutes

3 minutes = _____ seconds

_____ months = 5 years

_____ days = 4 weeks

8 What fraction of the shape is shaded?

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

9 $\frac{4}{5} + \frac{3}{5} =$

10
$\frac{3}{7} + $ _____ $= 1$

$1 - $ _____ $= \frac{2}{5}$

$53 \frac{2}{3} + $ _____ $= 60$

MY LAST SCORE?! .... HAVE I BEAT THAT?! ....

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1 Tick the right angled triangle

☐   ☐   ☐

2 What is the perimeter?

6cm

_____ cm

3

2 kg = _____ g

$2 \frac{1}{4}$ kg = _____ g

$2 \frac{3}{4}$ kg = _____ g

4 Use decimal notation to show...

£2 and 37p =

253p =

£3 =

5 Which day is 23 days after 16th April?

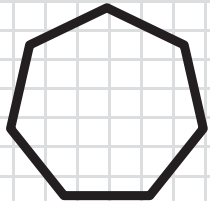**7** Which of these 3 analogue clocks show the equivalent time?

22:39
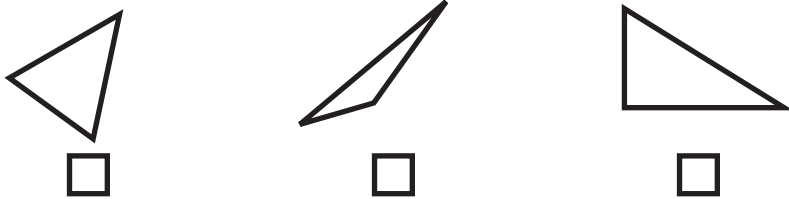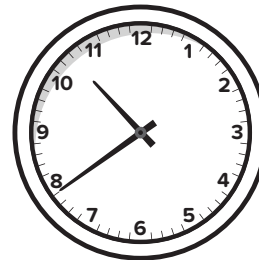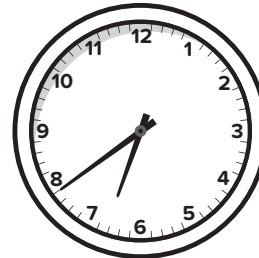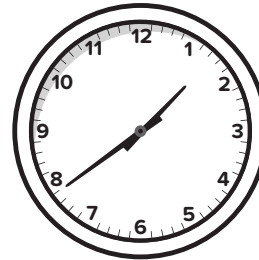
6

6 hours = _____ minutes

9 minutes = _____ seconds

_____ months = 3 years

_____ days = 7 weeks

8 What fraction of the shape is shaded?

$\frac{1}{2}$ $\frac{3}{4}$ $\frac{2}{3}$

9 $\frac{5}{6} + \frac{4}{6} =$

10

$\frac{2}{5} +$ _____ $= 1$

$1 -$ _____ $= \frac{3}{8}$

$22 \frac{1}{4} +$ _____ $= 30$

MY LAST SCORE?! .... HAVE I BEAT THAT?! ....

The Big SAFE Challenges!

1 Tick the equilateral triangle

☐   ☐   ☐

2 What is the perimeter?

4cm

_____ cm

3

$3 \ kg =$ _____ g

$3 \frac{3}{4} \ kg =$ _____ g

$3 \frac{1}{2} \ kg =$ _____ g

4 Use decimal notation to show...

£9 and 12p =

634p =

£1 =

5 Which day is 36 days before 11th June?

7 Which of these 3 analogue clocks show the equivalent time?

05:04
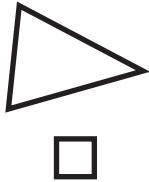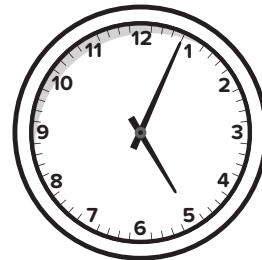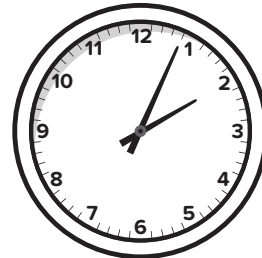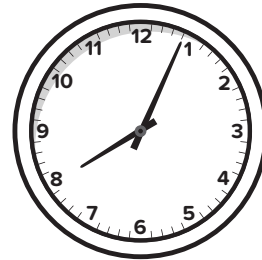
6

8 hours = _____ minutes

12 minutes = _____ seconds

_____ years = 24 months

_____ weeks = 28 days

8 What fraction of the shape is shaded?

$\frac{1}{2}$ $\frac{3}{4}$ $\frac{1}{3}$

9 $\frac{9}{4} - \frac{6}{4} =$

10

$\frac{1}{4} +$ _____ $= 1$

$1 -$ _____ $= \frac{1}{5}$
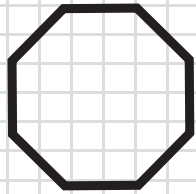
$46 \frac{2}{3} +$ _____ $= 50$

1 Tick the right angled triangle

☐   ☐   ☐

2 What is the perimeter?

2cm

_____ cm

3

7 kg = _____ g

$7\frac{1}{2}$ kg = _____ g

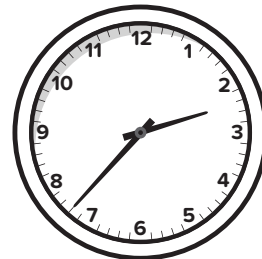7.5kg = _____ g

4 Use decimal notation to show...
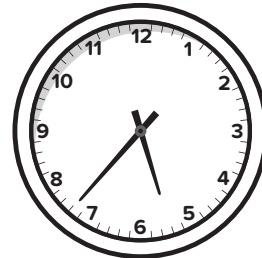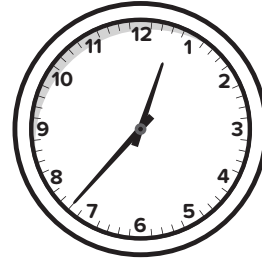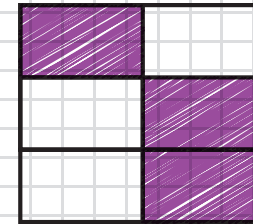
£3 and 79p =

352p =

£7 =

5 How many days from 9th November until 3rd December?

7 Which of these 3 analogue clocks show the equivalent time?

`00:37`

6

5 hours = _____ minutes

4 minutes = _____ seconds

_____ months = 8 years

_____ days = 2 weeks

8 What fraction of the shape is shaded?

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

9 $\frac{4}{5} + \frac{2}{5} =$

10

$\frac{5}{9} +$ _____ $= 1$

$1 -$ _____ $= \frac{2}{6}$

$13\frac{3}{4} +$ _____ $= 20$

1 Tick the scalene triangle

☐ ☐ ☐

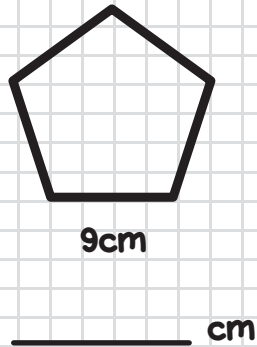**2** What is the perimeter?

9cm

_____ cm

3

4 kg = _____ g

$4 \frac{1}{4}$ kg = _____ g

4.5kg = _____ g

4 Use decimal notation to show...

£5 and 87p =

281p =

£4 =

5 How many days from 3rd August until 18th September?

7 Which of these 3 analogue clocks show the equivalent time?

15:44
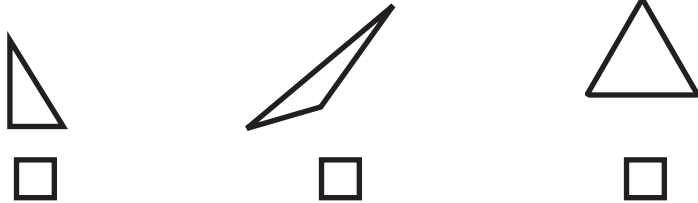
6

2 hours = _____ minutes

3 minutes = _____ seconds

_____ months = 3 years

_____ days = 6 weeks

8 What fraction of the shape is shaded?

$\frac{2}{3}$ $\frac{3}{4}$ $\frac{1}{3}$

9 $\frac{3}{8} + \frac{7}{8} =$

10

$\frac{2}{8} +$ _____ $= 1$

$1 -$ _____ $= \frac{4}{7}$

$72 \frac{1}{3} +$ _____ $= 80$

Beat That!

The Big SAFE Challenges!

1 Tick the right angled triangle

☐　　　☐　　　☐

2 What is the perimeter?

2cm
1cm
2cm
4cm
3cm
6cm

_____ cm
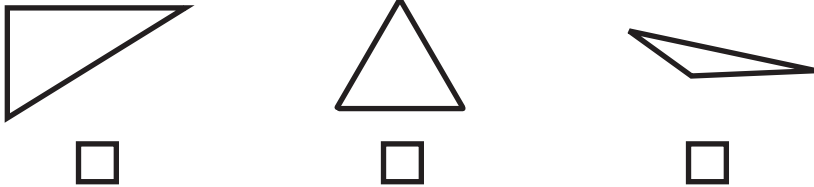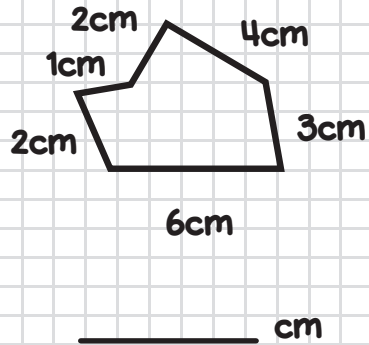
3

6 kg = _____ g

$6 \frac{3}{4}$ kg = _____ g

$6 \frac{1}{2}$ kg = _____ g

4 Use decimal notation to show...

£9 and 01p =

741p =

£5 =

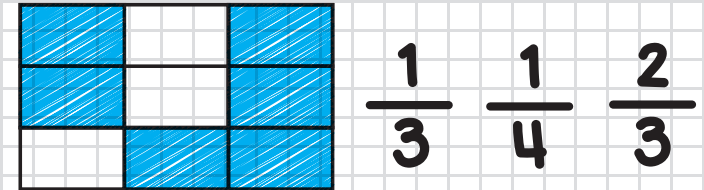**5** Which day is 29 days before 13th May?

7 Which of these 3 analogue clocks show the equivalent time?

23:17
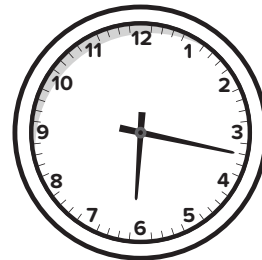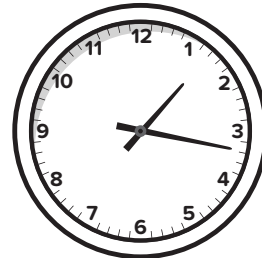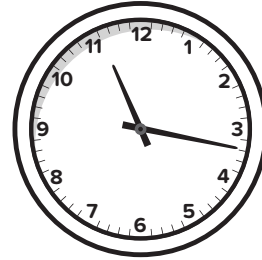
6 5 hours = _____ minutes

14 minutes = _____ seconds

_____ years = 24 months

_____ weeks = 14 days

8 What fraction of the shape is shaded?

$\frac{1}{3}$　$\frac{1}{4}$　$\frac{2}{3}$

9 $\frac{5}{6} + \frac{3}{6} =$

10

$\frac{5}{9} +$ _____ $= 1$

$1 -$ _____ $= \frac{4}{6}$

$81 \frac{3}{5} +$ _____ $= 90$

MY LAST SCORE?! ....　HAVE I BEAT THAT?! ....

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1 Tick the equilateral triangle

☐ ☐ ☐

7 Which of these 3 analogue clocks show the equivalent time?

`03:08`

6
6 hours = _____ minutes

7 minutes = _____ seconds

_____ months = 5 years

_____ days = 5 weeks

2 What is the perimeter?

6cm

_____ cm

3
9 kg = _____ g

$9 \frac{1}{4}$ kg = _____ g

$9 \frac{1}{2}$ kg = _____ g

8 What fraction of the shape is shaded?

$\frac{1}{3}$ $\frac{1}{4}$ $\frac{2}{3}$

9 $\frac{8}{9} - \frac{4}{9} =$
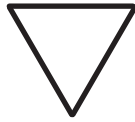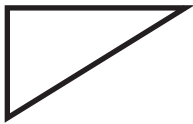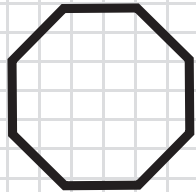
4 Use decimal notation to show...

£1 and 42p =

213p =

£7 =

5 Which day is 40 days after 4th April?

10
$\frac{2}{5} +$ _____ $= 1$

$1 -$ _____ $= \frac{3}{7}$

$18 \frac{3}{7} +$ _____ $= 20$

Beat THAT!

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The Big SAFE Challenges!

1 Tick the isosceles triangle

☐ ☐ ☐

2 What is the perimeter?

5cm
2cm
4cm
2cm
4cm
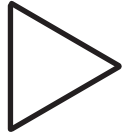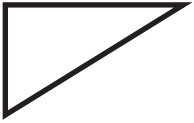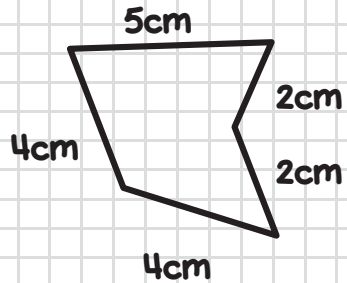
_____ cm

3

3 kg = _____ g

$3\frac{1}{2}$ kg = _____ g

$3\frac{3}{4}$ kg = _____ g

4 Use decimal notation to show...

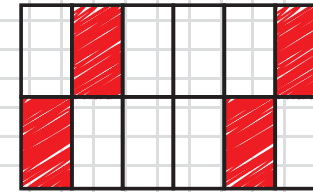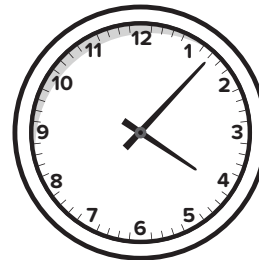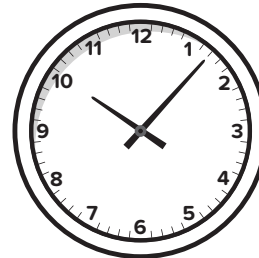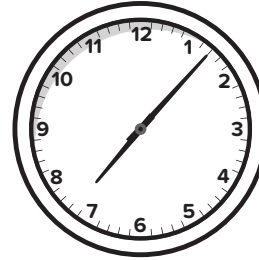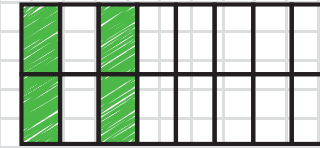£3 and 64p =

471p =

£2 =

5 Which day is 20 days after 19th July?

7 Which of these 3 analogue clocks show the equivalent time?

07:07

6

3 hours = _____ minutes

8 minutes = _____ seconds

_____ months = 2 years

_____ days = 2 weeks

8 What fraction of the shape is shaded?

$\frac{3}{4}$ $\frac{2}{3}$ $\frac{1}{4}$

9 $\frac{9}{4} - \frac{6}{4} =$

10

$\frac{5}{9} +$ _____ $= 1$

$1 -$ _____ $= \frac{2}{8}$

$24\frac{3}{9} +$ _____ $= 30$
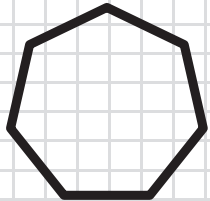
Beat THAT!

The Big SAFE Challenges!

1 Tick the right angled triangle

☐ ☐ ☐

2 What is the perimeter?

6cm

_____ cm

3

5 kg = _____ g

5.5kg = _____ g

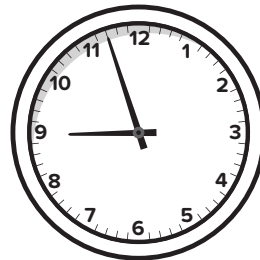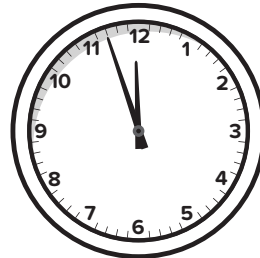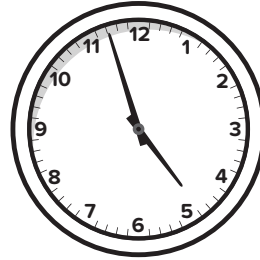$5\frac{3}{4}$ kg = _____ g

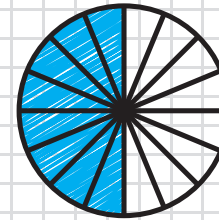**4** Use decimal notation to show...

£4 and 44p =

687p =

£6 =

5 How many days from 25th May until 6th June?

7 Which of these 3 analogue clocks show the equivalent time?

16:57

6

9 hours = _____ minutes

15 minutes = _____ seconds

_____ months = 6 years

_____ days = 9 weeks

8 What fraction of the shape is shaded?

$\frac{3}{4}$ $\frac{1}{2}$ $\frac{1}{3}$

9 $\frac{2}{7} + \frac{6}{7} =$

10

$\frac{7}{8} + \underline{\quad} = 1$

$1 - \underline{\quad} = \frac{4}{9}$

$46\frac{2}{5} + \underline{\quad} = 50$

MY LAST SCORE?! .... HAVE I BEAT THAT?! ....

Beat THAT!

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The Big SAFE Challenges!

1 Tick the equilateral triangle

☐   ☐   ☐

2 What is the perimeter?

4cm   4cm

2cm

2cm   2cm

5cm

_____ cm

3

7 kg = _____ g

7.5kg = _____ g

$7 \frac{1}{2}$ kg = _____ g

4 Use decimal notation to show...

£3 and 54p =

279p =

£2 =

5 How many days from 8th July until 5th August?

7 Which of these 3 analogue clocks show the equivalent time?

21:08
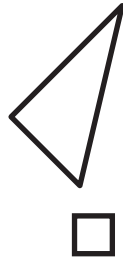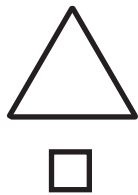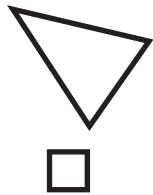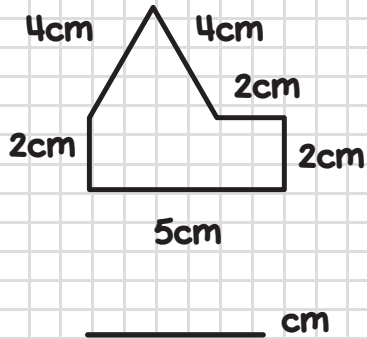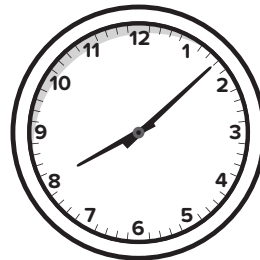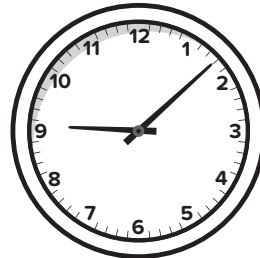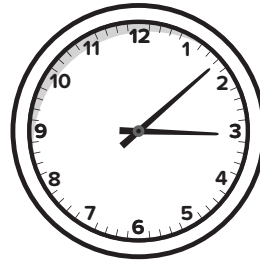
6 5 hours = _____ minutes

12 minutes = _____ seconds

_____ months = 3 years

_____ days = 4 weeks

8 What fraction of the shape is shaded?

$\frac{1}{4}$ $\frac{2}{3}$ $\frac{1}{3}$

9 $\frac{4}{6} + \frac{4}{6} =$

10

$\frac{1}{4} +$ _____ $= 1$

$1 -$ _____ $= \frac{1}{3}$

$73 \frac{3}{7} +$ _____ $= 80$

1 Tick the isosceles triangle

✓ ☐ ☐
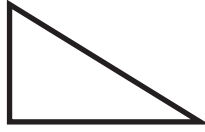
2 What is the perimeter?
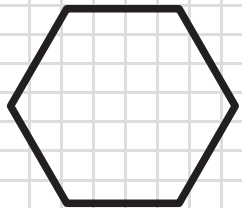
5cm

30 cm

3

4 kg = **4000** g

$4 \frac{1}{2}$ kg = **4500** g

$4 \frac{1}{4}$ kg = **4250** g

4 Use decimal notation to show...

£1 and 46p = **£1.46**
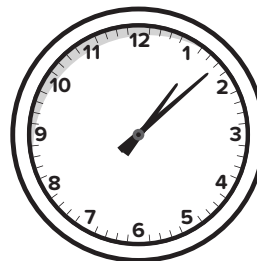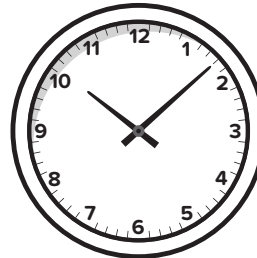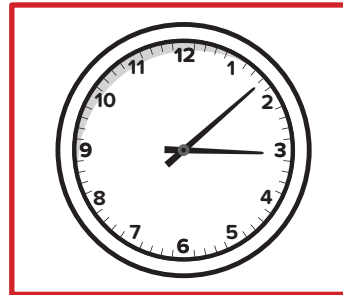
374p = **£3.74**

£8 = **£8.00**

5 How many days from September 5th until October 22nd?
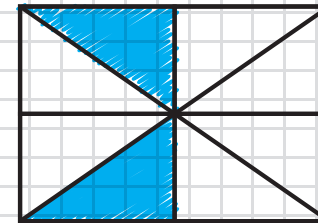
48 days

7 Which of these 3 analogue clocks show the equivalent time?

15:08

6

4 hours = **240** minutes

3 minutes = **180** seconds

60 months = 5 years

28 days = 4 weeks

8 What fraction of the shape is shaded?

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

9 $\frac{4}{5} + \frac{3}{5} = \frac{7}{5}$

10

$\frac{3}{7} + \frac{4}{7} = 1$

$1 - \frac{3}{5} = \frac{2}{5}$

$53\frac{2}{3} + 6\frac{1}{3} = 60$

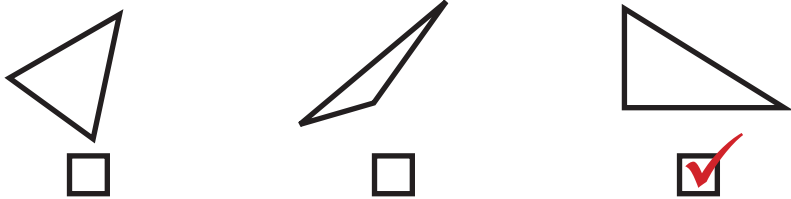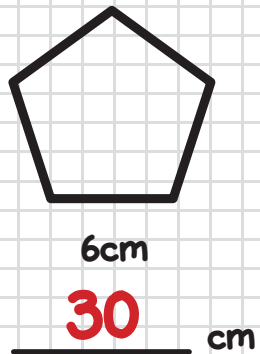MY LAST SCORE?! .... HAVE I BEAT THAT?! ....

BEAT THAT!

Andrell Education Ltd

The Big SAFE Challenges!

1 Tick the right angled triangle

☐ ☐ ☑

2 What is the perimeter?

6cm

30 ___ cm

3

2 kg = **2000** g

$2 \frac{1}{4}$ kg = **2250** g

$2 \frac{3}{4}$ kg = **2750** g

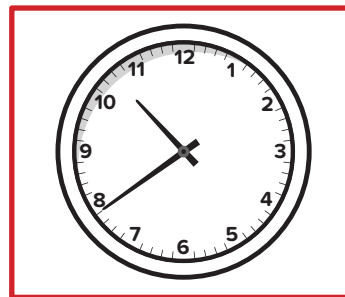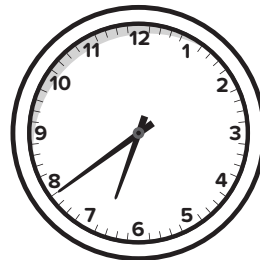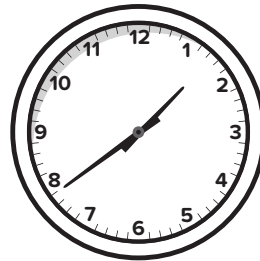**4** Use decimal notation to show...

£2 and 37p = **£2.37**

253p = **£2.53**

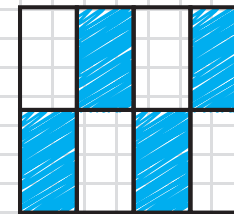£3 = **£3.00**

5 Which day is 23 days after 16th April?

9th May

7 Which of these 3 analogue clocks show the equivalent time?

22:39

6
6 hours = **360** minutes

9 minutes = **540** seconds

36 months = 3 years

49 days = 7 weeks

8 What fraction of the shape is shaded?

$\boxed{\frac{1}{2}}$ $\frac{3}{4}$ $\frac{2}{3}$

9 $\frac{5}{6} + \frac{4}{6} = \frac{9}{6}$

10

$\frac{2}{5} + \frac{3}{5} = 1$

$1 - \frac{5}{8} = \frac{3}{8}$

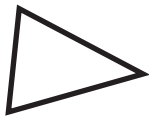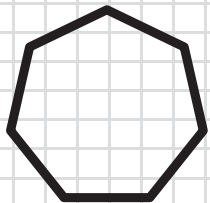$22 \frac{1}{4} + 7 \frac{3}{4} = 30$

Beat That!

Andrell Education Ltd

The Big SAFE Challenges!

1 Tick the equilateral triangle

☐ ☑ ☐

6
8 hours = **480** minutes

12 minutes = **720** seconds

2 years = 24 months
4 weeks = 28 days

2 What is the perimeter?

4cm

28 cm

3
3 kg = **3000** g

$3 \frac{3}{4}$ kg = **3750** g

$3 \frac{1}{2}$ kg = **3500** g

7 Which of these 3 analogue clocks show the equivalent time?

05:04

8 What fraction of the shape is shaded?

$\frac{1}{2}$ $\boxed{\frac{3}{4}}$ $\frac{1}{3}$

9
$\frac{9}{4} - \frac{6}{4} = \frac{3}{4}$

4 Use decimal notation to show...

£9 and 12p = **£9.12**

634p = **£6.34**

£1 = **£1.00**

5 Which day is 36 days before 11th June?

6th May
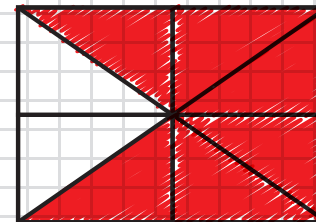
10
$\frac{1}{4} + \frac{3}{4} = 1$

$1 - \frac{4}{5} = \frac{1}{5}$

$46 \frac{2}{3} + 3 \frac{1}{3} = 50$

Beat THAT!

Andrell Education Ltd

The Big SAFE Challenges!

1 Tick the right angled triangle

✓

2 What is the perimeter?

2cm

16 cm

3

7 kg = **7000** g

$7\frac{1}{2}$ kg = **7500** g

7.5kg = **7500** g

4 Use decimal notation to show...

£3 and 79p = **£3.79**

352p = **£3.52**

£7 = **£7.00**

5 How many days from 9th November until 3rd December?

24 days

7 Which of these 3 analogue clocks show the equivalent time?

00:37

6
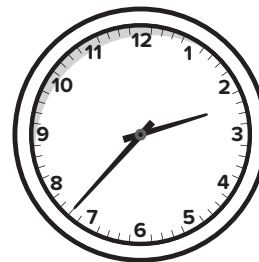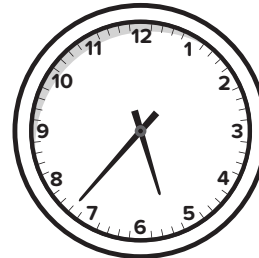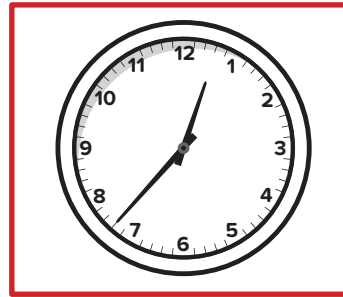
5 hours = **300** minutes

4 minutes = **240** seconds

96 months = 8 years

14 days = 2 weeks

8 What fraction of the shape is shaded?

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

9 $\frac{4}{5} + \frac{2}{5} = \frac{6}{5}$

10

$\frac{5}{9} + \frac{4}{9} = 1$

$1 - \frac{4}{6} = \frac{2}{6}$

$13\frac{3}{4} + 6\frac{1}{4} = 20$

BEAT THAT!

The Big SAFE Challenges!

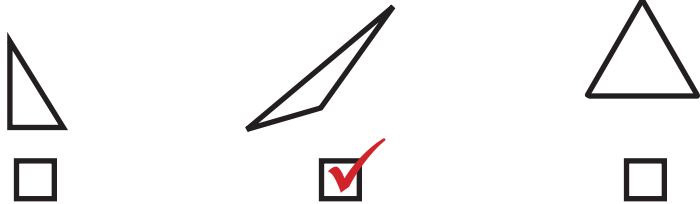**1** Tick the scalene triangle

☐   ☑   ☐

2 What is the perimeter?

9cm

45 _____ cm
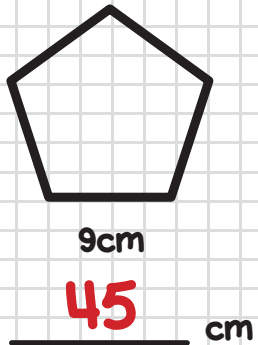
3
4 kg = **4000** g

$4\frac{1}{4}$ kg = **4250** g

4.5kg = **4500** g

4 Use decimal notation to show…
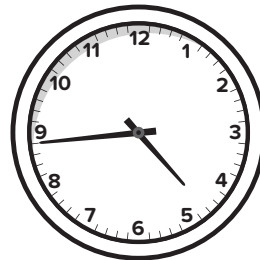
£5 and 87p = **£5.87**
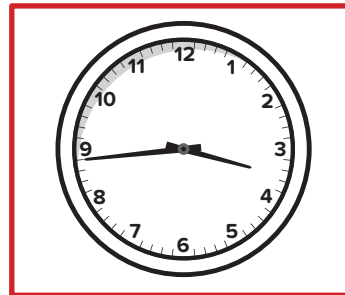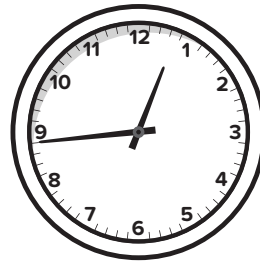
281p = **£2.81**

£4 = **£4.00**

5 How many days from 3rd August until 18th September?
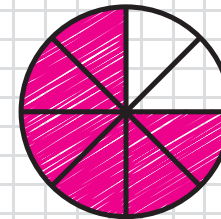
46 days

7 Which of these 3 analogue clocks show the equivalent time?

15:44

6
2 hours = **120** minutes

3 minutes = **180** seconds

36 months = 3 years

42 days = 6 weeks

8 What fraction of the shape is shaded?

$\frac{2}{3}$ $\boxed{\frac{3}{4}}$ $\frac{1}{3}$

9 $\frac{3}{8} + \frac{7}{8} = \frac{10}{8}$

10
$\frac{2}{8} + \frac{6}{8} = 1$

$1 - \frac{3}{7} = \frac{4}{7}$

$72\frac{1}{3} + 7\frac{2}{3} = 80$
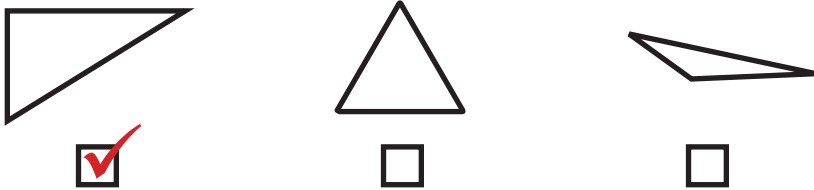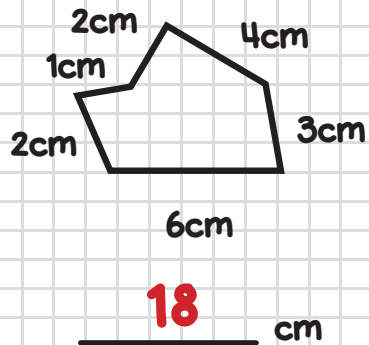
MY LAST SCORE?! ……………… HAVE I BEAT THAT?! ………………

Beat THAT!

Andrell Education Ltd

The Big SAFE Challenges!

1 Tick the right angled triangle

☑ ☐ ☐

2 What is the perimeter?

2cm
1cm
4cm
2cm
3cm
6cm

18 cm

3
6 kg = **6000** g

$6 \frac{3}{4}$ kg = **6750** g

$6 \frac{1}{2}$ kg = **6500** g

4 Use decimal notation to show...
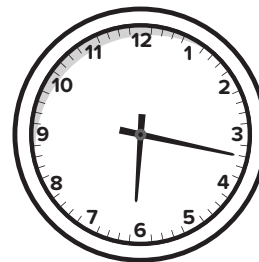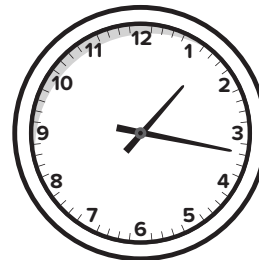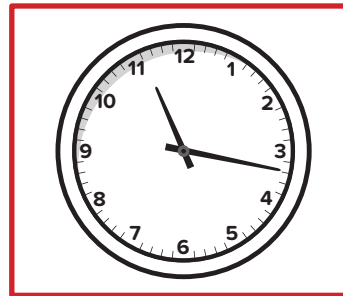
£9 and 01p = **£9.01**

741p = **£7.41**

£5 = **£5.00**

5 Which day is 29 days before 13th May?
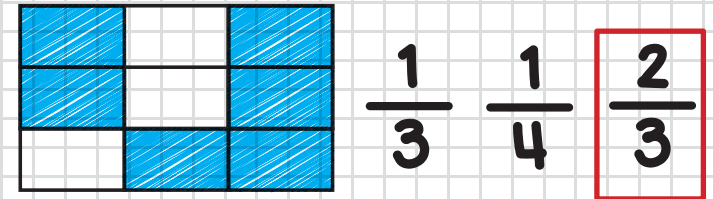
14th April

7 Which of these 3 analogue clocks show the equivalent time?

23:17

6
5 hours = **300** minutes

14 minutes = **840** seconds

2 years = 24 months

2 weeks = 14 days

8 What fraction of the shape is shaded?

$\frac{1}{3}$ $\frac{1}{4}$ $\frac{2}{3}$

9 $\frac{5}{6} + \frac{3}{6} = \frac{8}{6}$

10
$\frac{5}{9} + \frac{4}{9} = 1$

$1 - \frac{2}{6} = \frac{4}{6}$
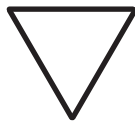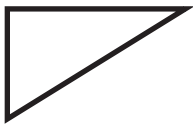
$81 \frac{3}{5} + 8 \frac{2}{5} = 90$

1 Tick the equilateral triangle

☐   ☐   ☑

2 What is the perimeter?
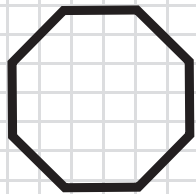
6cm

48 cm

3

9 kg = **9000** g

$9\frac{1}{4}$ kg = **9250** g

$9\frac{1}{2}$ kg = **9500** g

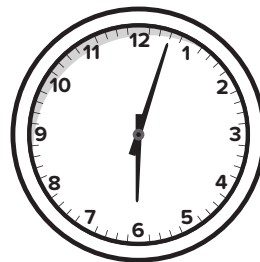**4** Use decimal notation to show...

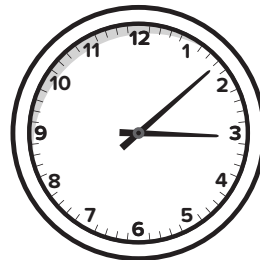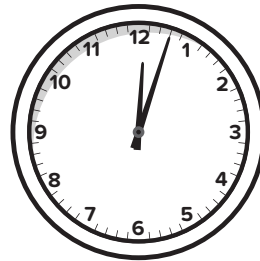£1 and 42p = **£1.42**

213p = **£2.13**

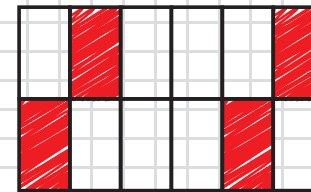£7 = **£7.00**

5 Which day is 40 days after 4th April?

14th May

7 Which of these 3 analogue clocks show the equivalent time?

03:08

6

6 hours = **360** minutes

7 minutes = **420** seconds

60 months = 5 years

35 days = 5 weeks

8 What fraction of the shape is shaded?

$\frac{1}{3}$ $\frac{1}{4}$ $\frac{2}{3}$

9 $\frac{8}{9} - \frac{4}{9} = \frac{4}{9}$

10

$\frac{2}{5} + \frac{3}{5} = 1$

$1 - \frac{4}{7} = \frac{3}{7}$

$18\frac{3}{7} + 1\frac{4}{7} = 20$

1 Tick the isosceles triangle

☐ ☐ ☑

2 What is the perimeter?

5cm
2cm
4cm
2cm
4cm

17 cm
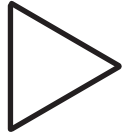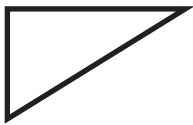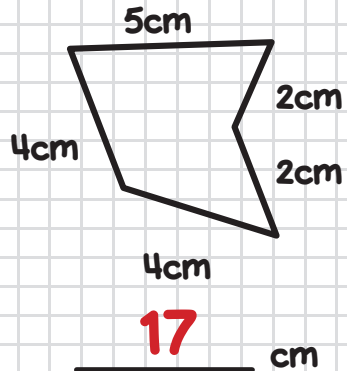
3

3 kg = **3000** g

$3\frac{1}{2}$ kg = **3500** g

$3\frac{3}{4}$ kg = **3750** g

4 Use decimal notation to show...

£3 and 64p = **£3.64**
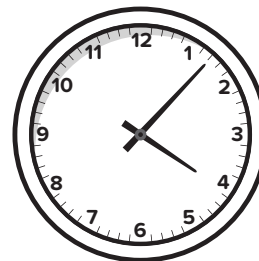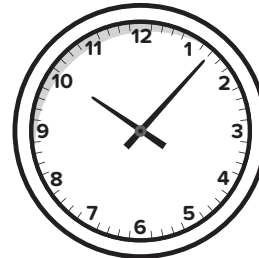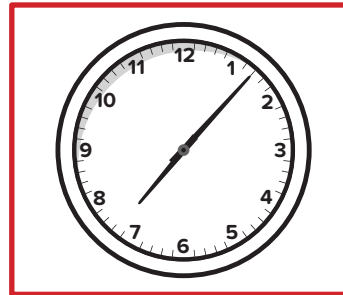
471p = **£4.71**

£2 = **£2.00**

5 Which day is 20 days after 19th July?
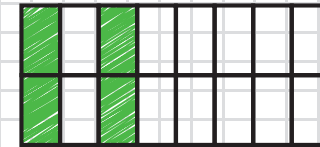
8th August

7 Which of these 3 analogue clocks show the equivalent time?

07:07

6

3 hours = **180** minutes

8 minutes = **480** seconds

24 months = 2 years

14 days = 2 weeks

8 What fraction of the shape is shaded?

$\frac{3}{4}$ $\frac{2}{3}$ $\boxed{\frac{1}{4}}$

9 $\frac{9}{4} - \frac{6}{4} = \frac{3}{4}$

10

$\frac{5}{9} + \frac{4}{9} = 1$

$1 - \frac{6}{8} = \frac{2}{8}$
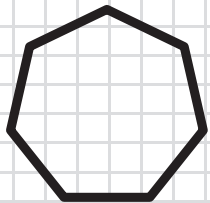
$24\frac{3}{9} + 5\frac{6}{9} = 30$

Beat THAT!

Andrell Education Ltd

The Big SAFE Challenges!

1 Tick the right angled triangle

☐   ☐   ☑

2 What is the perimeter?

6cm

42 cm

3

5 kg = **5000** g

5.5kg = **5500** g

$5 \frac{3}{4}$ kg = **5750** g

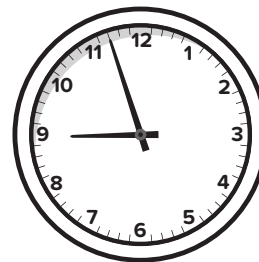**4** Use decimal notation to show...

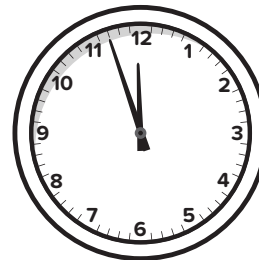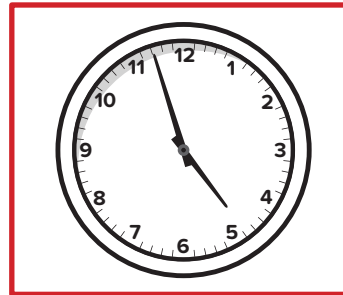£4 and 44p = **£4.44**

687p = **£6.87**

£6 = **£6.00**

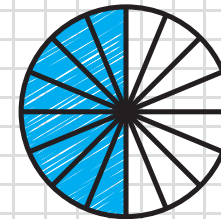**5** How many days from 25th May until 6th June?

12 days

7 Which of these 3 analogue clocks show the equivalent time?

16:57

6

9 hours = **540** minutes

15 minutes = **900** seconds

72 months = 6 years

63 days = 9 weeks

8 What fraction of the shape is shaded?

$\frac{3}{4}$ $\boxed{\frac{1}{2}}$ $\frac{1}{3}$

9

$\frac{2}{7} + \frac{6}{7} = \frac{8}{7}$

10

$\frac{7}{8} + \frac{1}{8} = 1$

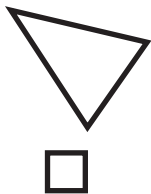$1 - \frac{5}{9} = \frac{4}{9}$
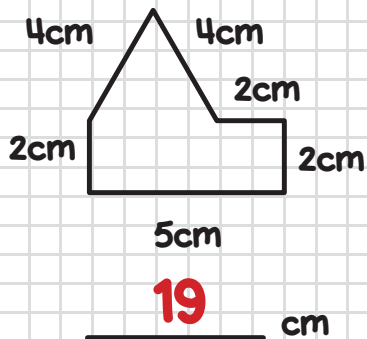
$46 \frac{2}{5} + 3 \frac{3}{5} = 50$

MY LAST SCORE?! ....   HAVE I BEAT THAT?! ....

Beat THAT!

Andrell Education Ltd

The Big SAFE Challenges!

1 Tick the equilateral triangle

☐   ☑   ☐

2 What is the perimeter?

4cm   4cm
2cm
2cm   2cm
5cm

19 ___ cm

3

7 kg = **7000** g

7.5kg = **7500** g

$7 \frac{1}{2}$ kg = **7500** g

4 Use decimal notation to show...
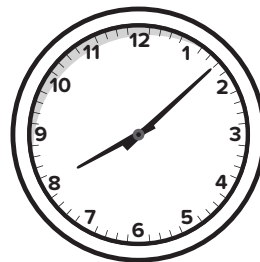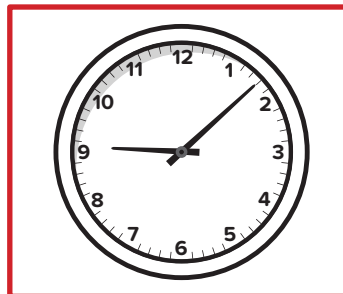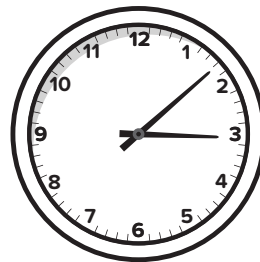
£3 and 54p = **£3.54**

279p = **£2.79**

£2 = **£2.00**

5 How many days from 8th July until 5th August?

28 days

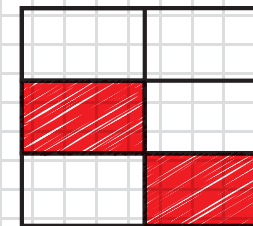**7** Which of these 3 analogue clocks show the equivalent time?

⌜21:08⌟

(clock 1)

(clock 2 — boxed in red)

(clock 3)

6

5 hours = **300** minutes

12 minutes = **720** seconds

36 months = 3 years

28 days = 4 weeks

8 What fraction of the shape is shaded?

$\frac{1}{4}$ $\frac{2}{3}$ $\boxed{\frac{1}{3}}$

9 $\frac{4}{6} + \frac{4}{6} = \frac{8}{6}$

10

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

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

$73 \frac{3}{7} + 6 \frac{4}{7} = 80$

Beat THAT!

The Big SAFE Challenges!