BEAT THAT!

Name:

Class:

Date:

The Big CLIC Challenges! **PLATINUM**

1 $8 \div \frac{2}{5} =$

2 Five sixths add seven ninths

3 Explain why 36% is less than 3/8

4 Convert 5/8 into a percentage

5 Increase £32 by 15%

6 Write down a fraction between 1/3 and 1/2

7 Decrease 72m by 35%

8 A recipe for 6 people includes 750ml of orange juice. How many millilitres would be needed for 10 people.

9 There is a 30% sale. A boy paid £140 for a camera in the sale. What was the original price of the camera?

10 Divide 180 in the ratio 3:4:5

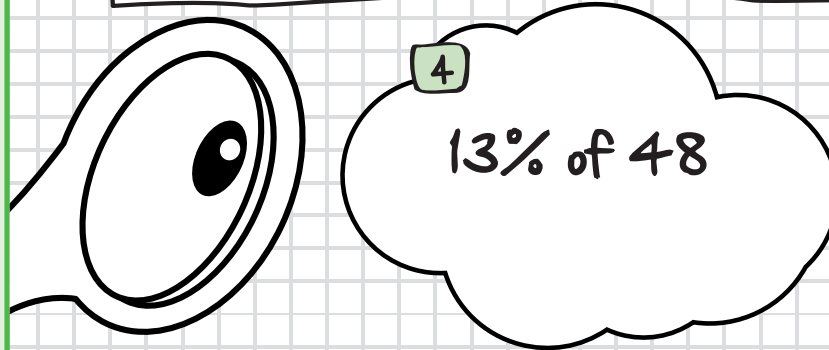**MY LAST SCORE?!** ....   **HAVE I BEAT THAT?!**   10

Big Maths BEAT THAT!

Name:

Class:

Date:

The Big CLIC Challenges! PLATINUM

1 $10 \div \frac{2}{3} =$

2 Eleven twelfhs take away three eights

3 Find 35% of 48Kg

4 13% of 48

5 Increase 56cm by 25%

6 Write down a fraction between $\frac{1}{4}$ and $\frac{1}{5}$

7 Decrease £87 by 10%

8 A recipe for 5 people includes 450g of flour, how many grams would be needed for 8 people?

9 There is a 25% discount in a sale. A girl paid £30 for a pair of jeans in the sale. What was the orginal price of the jeans?

10 Divide £91 in the ratio 1:2:4

BEAT THAT!

Name:

Class:

Date:

The Big CLIC Challenges! PLATINUM

1 24 x ⅝ =

2 seven sixteenths add three twelfths

3 Find 13% of 45ml

4 Convert 0.55 to a percentage

5 Increase £50 by 6%

6 How would you change any fraction to an equivalent percentage?

7 Decrease 450m by 5%

8 5 miles is approximately equal to 8km what would 3 miles be approximately the same as?

9 There is a 10% discount in a sale. Mark pays £450 for a new TV in the sale. What was the original price of the TV?

10 If the ratio of boys to girls in a class is 3:1, could there be exactly 30 children in the class? Why?
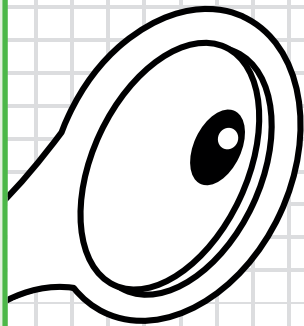
BIG Maths BEAT THAT!

Name:

Class:

Date:

The BIG CLIC Challenges! PLATINUM

1 ⅔ of 8m =

2 Work out:
$1\frac{3}{5} + 2\frac{3}{4}$

3 27% of 63m

4 Change eight ninths into a decimal to two decimal places

5 Increase 72Kg by 35%

6 Which is closest to ⅓? 0.3 or 0.4? explain why

7 Decrease £98 by just 1%

8 Mary pays £64 for a mobile phone in a sale that originally cost £80. What percentage discount did she get?

9 Ticket prices are increased by 10%. Ali now pays £8.80 for a ticket, what would he have paid before the increase?

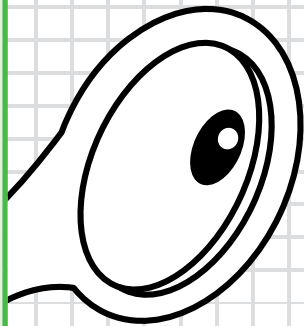**10** The angles in a triangle are in the ratio 6:5:7. Find out the sizes of the three angles.

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

10

Big Maths BEAT THAT!

Name:

Class:

Date:

The Big CLIC Challenges! PLATINUM

1 $12 \div \frac{3}{5} =$

2 $\frac{5}{6}$ **add** $\frac{3}{5}$ **take away** $\frac{2}{3}$

3 Ann says that 48% of £56 is £32.48. Explain why she must be wrong.

4 Write seven twelfths as a percentage. Give your answer to one decimal place.

5 Increase 68cm by 5%.

6 Starting with one tenth = 0.1 = 10%, what other eqivalences can you work out?

7 What is a quick way of decreasing any number by 5%?

8 The height of a plant has increased by 12cm from its original height of 0.8m. What is the percentage increase in height?

9 The value of Ann's car decreases by 25% when compared with what she paid for it 2 years ago. It is now worth £3600. What did she pay for the car?

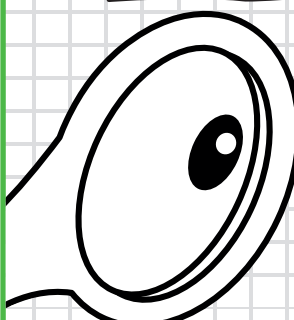**10** Some money is shared between John and Ann in the ratio 3:5. John gets £24, how much does Ann receive?

BEAT THAT!

Name:

Class:

Date:

1 What is 32 × ⅞?

2 Explain why ⅓ + ½ does not equal ⅖

3 Work out 98% of £40. Is there a quick way?

4 Put these in order: 64%, ⅔, 0.7, ⅝ starting with the smallest

5 Increase 88Kg by 55%.

6 Write down a percentage between ⅖ and 0.43

7 Decrease 90 by 25%.

8 Imran scores 45 out of 60 in his maths test. The following week he scores 54 out of 60. What is the percentage increase between the two tests?

9 For one day only prices are reduced by 5%. Paul buys a digital radio for £38. What is the cost of the radio before this reduction?

10 £54 is shared between Steven and Ali so that Ali gets twice as much as Steven. How much does Ali get?

The Big CLIC Challenges! PLATINUM

Big Maths BEAT THAT!

Name:

Class:

Date:

The Big CLIC Challenges! PLATINUM

1 What is ⅝ of 14cm?

2 Eight ninths take away five sixths

3 How could you work out 2½% of a quantity?

4 Which is closest to ⅔? 0.6 or 0.7 How do you know?

5 Increase 500ml by 0.5%

6 Write down a decimal between ⅓ and 30%

7 Decrease 800ml by 70%

8 Jenny pours out 150ml of milk from a jug leaving 80% of the original amount of milk in the jug. How much milk was originally in the jug?

9 My weight has increased from 80Kg to 84Kg. What is the percentage increase in my weight?

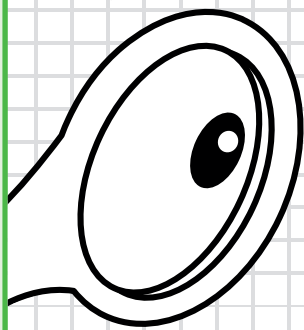**10** The ratio of boys to girls in a class is 2:3. What fraction of the class are boys?

Big Maths BEAT THAT!

Name:

Class:

Date:

The Big CLIC Challenges! PLATINUM

1 How many times does ¾ divide into 12?

2 What is 4¼ - 1⅔ ?

3 Is 30% of 42 the same as 42% of 30? Explain your answer

4 If ³⁄₅ of X is £90, what is 5% of X?

5 Find 105% of 420m

6 Would you prefer to have ²⁄₅ or ½ %?

7 Jake says that to decrease any number by 20% you just multiply by 0.8. Is he right? Explain your answer.

8 I cut 70cm off a length of ribbon so that the ribbon is now 65% of its original length. What was the original length of the ribbon?

9 Jane buys a laptop computer for £400 and then sells it two years later for £240. What is her percentage loss?
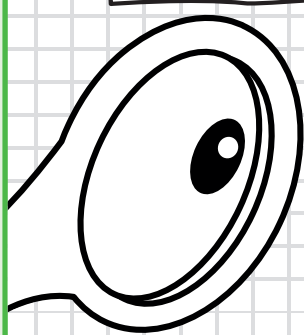
10 Divide £4200 in the ratio 1:2:3

BEAT THAT!

Name:

Class:

Date:

1 What is ⅗ of 19Kg?

2 Explain why equivalent fractions are important when adding and subtracting fractions.

3 Explain how to find a percentage of any number. Which are easy? Which are harder?

4 If ⅚ of y is £25, what is ½ of y?

5 What is 200% of 78ml?

6 What fraction lies half-way between 0.4 and 48%?

7 Decrease 43Kg by ¼

8 The number of pupils in my school has increased over the last 3 years from 600 to 630 What is the percentage increase in pupil numbers?

9 A bookshop offers a 15% discount if you buy more than two books. Tim buys 4 books and makes a saving of £3. How much would the books have cost Tim without this discount?

10 Potting compost is made from loam, peat and sand in the ratio 7:3:2. A gardener used 15 litres of peat to make compost. How much loam did she use?

The Big CLIC Challenges! PLATINUM

MY LAST SCORE?! ....   HAVE I BEAT THAT?!   10

BEAT THAT!

Name:

Class:

Date:

1 In a survey of 40 pupils, ⅜ like basketball, ⅖ like football and the rest like swimming. How many liked swimming?

2 Take $4\frac{2}{3}$ from $5\frac{1}{2}$

3 John says that if you increase something by 10% and then by another 10% it is the same as increasing it by 20%. Is he correct? Explain your thinking.

4 If ⅞ of n is 63, what is ¾ of n?

5 Increase 75 by 1%.

6 What fraction lies half-way between ⅜ and 0.75?

7 If I increase n by 30% I get 52. What is n?

8 A shopkeeper reduces his prices by 10%. A week later he increases them by 10%. Are the prices now back to their original price? Explain your thinking.

9 Cheryl sells her old bicycle for £45 making a loss of 70% on what she originally paid for it. What was the original cost of the bicycle?

10 A sum of money is shared between Sue and David so that Sue gets 50% more than David What is the ratio of David's share to Sue's share?

The Big CLIC Challenges! PLATINUM

BEAT THAT!

Name:

Class:

Date:

The Big CLIC Challenges! PLATINUM

1 8 ÷ ²/₅ =

20

2 Five sixths add seven ninths

1 ¹/₁₈

3 Explain why 36% is less than 3/8

³/₈ equals 37.5% which is greater than 36%

4 Convert 5/8 into a percentage

62.5%

5 Increase £32 by 15%

£36.80

6 Write down a fraction between 1/3 and 1/2

⁴/₁₀ ²/₅ ³/₈

7 Decrease 72m by 35%

46.8

8 A recipe for 6 people includes 750ml of orange juice. How many millilitres would be needed for 10 people.

1250ml

9 There is a 30% sale. A boy paid £140 for a camera in the sale. What was the original price of the camera?

£200

10 Divide 180 in the ratio 3:4:5

45 : 60 : 75

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

10

Big Maths BEAT THAT!

Name:

Class:

Date:

The Big CLIC Challenges! PLATINUM

1 $10 \div \frac{2}{3} =$

15

2 Eleven twelfhs take away three eights

13/24

3 Find 35% of 48Kg

16.8kg

4 13% of 48

6.24

5 Increase 56cm by 25%

70cm

6 Write down a fraction between ¼ and ⅕

2/9 3/13 3/14

7 Decrease £87 by 10%

£78.30

8 A recipe for 5 people incudles 450g of flour, how many grams would be needed for 8 people?

720g

9 There is a 25% discount in a sale. A girl paid £30 for a pair of jeans in the sale. What was the orginal price of the jeans?

£40

10 Divide £91 in the ratio 1:2:4

£13 : £26 : £52

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

10

BEAT THAT!

Name:

Class:

Date:

1. 24 x ⅝ =

15

2. seven sixteenths add three twelfths

¹¹⁄₁₆

3. Find 13% of 45ml

5.85ml

4. Convert 0.55 to a percentage

55%

5. Increase £50 by 6%.

£53

6. How would you change any fraction to an equivalent percentage?

Divide numerator by denominator and multiply by 100

7. Decrease 450m by 5%.

427.5m

8. 5 miles is approximately equal to 8km what would 3 miles be approximately the same as?

4.8km

9. There is a 10% discount in a sale. Mark pays £450 for a new TV in the sale. What was the original price of the TV?

£500

10. If the ratio of boys to girls in a class is 3:1, could there be exactly 30 children in the class? Why?

No. There are 4 parts in the ratio and 4 is not a factor of 30.

The Big CLIC Challenges! PLATINUM

MY LAST SCORE?! ....

HAVE I BEAT THAT?! ....

10

BEAT THAT!

Name:

Class:

Date:

1 ⅔ of 8m =

5.33m

2 Work out:
1 ³⁄₅ + 2 ¾

4 ⁷⁄₂₀

3 27% of 63m

17.01m

4 Change eight ninths into a decimal to two decimal places

0.89

5 Increase 72kg by 35%

97.2kg

6 Which is closest to ⅓? 0.3 or 0.4? explain why

0.3. 0.3 is 0.033 from ⅓ while 0.4 is 0.066 away

7 Decrease £98 by just 1%

£97.02

8 Mary pays £64 for a mobile phone in a sale that originally cost £80. What percentage discount did she get?

20%

9 Ticket prices are increased by 10%. Ali now pays £8.80 for a ticket, what would he have paid before the increase?

£8

10 The angles in a triangle are in the ratio 6:5:7. Find out the sizes of the three angles.

600 : 500 : 700

The Big CLIC Challenges! PLATINUM

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

10

Big Maths BEAT THAT!

Name:

Class:

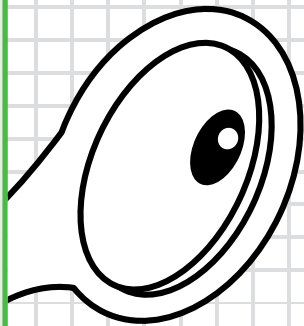**Date:**

The Big CLIC Challenges! PLATINUM

1 $12 \div \frac{3}{5} =$

20

2 $\frac{5}{6}$ **add** $\frac{3}{5}$ **take away** $\frac{2}{3}$

$\frac{23}{30}$

3 Ann says that 48% of £56 is £32.48. Explain why she must be wrong.

50% would be £28 so 48% can't be higher

4 Write seven twelfths as a percentage. Give your answer to one decimal place.

0.6

5 Increase 68cm by 5%.

71.4cm

6 Starting with one tenth = 0.1 = 10%, what other equivalences can you work out?

e.g. one fifth = 0.2 = 20%

7 What is a quick way of decreasing any number by 5%?

Divide by 10 and then half that

8 The height of a plant has increased by 12cm from its original height of 0.8m. What is the percentage increase in height?

15%

9 The value of Ann's car decreases by 25% when compared with what she paid for it 2 years ago. It is now worth £3600. What did she pay for the car?

£4,800

10 Some money is shared between John and Ann in the ratio 3:5. John gets £24, how much does Ann receive?

£40

Big Maths BEAT THAT!

Name:

Class:

Date:

The Big CLIC Challenges! PLATINUM

1 What is 32 x ⅞?

28

2 Explain why ⅓ + ½ does not equal ⅖

½ alone is greater than ⅖

3 Work out 98% of £40. Is there a quick way?

£39.20. Find 1% (divide by 100) then take away 2 lots of that.

4 Put these in order: 64%, ⅔, 0.7, ⅝ starting with the smallest

⅝ **64%** ⅔ **0.7**

5 Increase 88Kg by 55%.

136.4kg

6 Write down a percentage between ⅖ and 0.43

41%

7 Decrease 90 by 2.5%

87.3

8 Imran scores 45 out of 60 in his maths test. The following week he scores 54 out of 60. What is the percentage increase between the two tests?

20%

9 For one day only prices are reduced by 5%. Paul buys a digital radio for £38. What is the cost of the radio before this reduction?

£40

10 £54 is shared between Steven and Ali so that Ali gets twice as much as Steven. How much does Ali get?

£36

Big Maths BEAT THAT!

Name:

Class:

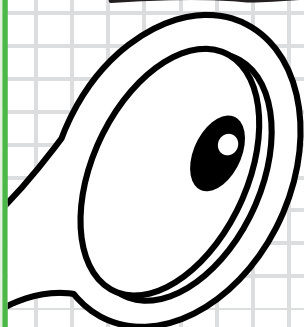**Date:**

The Big CLIC Challenges! PLATINUM

1 What is ⅝ of 14cm?
8.75

2 Eight ninths take away five sixths
¹⁄₁₈

3 How could you work out 2½% of a quantity?
Divide by 10 then divide by 4

4 Which is closest to ⅔? 0.6 or 0.7 How do you know?
0.7. ⅔ is 0.666

5 Increase 500ml by 0.5%
502.5ml

6 Write down a decimal between ⅓ and 30%
0.31

7 Decrease 800ml by 70%
240ml

8 Jenny pours out 150ml of milk from a jug leaving 80% of the original amount of milk in the jug. How much milk was originally in the jug?
750ml

9 My weight has increased from 80Kg to 84Kg. What is the percentage increase in my weight?
5%

10 The ratio of boys to girls in a class is 2:3. What fraction of the class are boys?
⅖

BEAT THAT!
Big Maths

Name:

Class:

Date:

The Big CLIC Challenges! PLATINUM

1 How many times does ¾ divide into 12?

16

2 What is 4¼ - 1⅔ ?

2 ⁷⁄₁₂

3 Is 30% of 42 the same as 42% of 30? Explain your answer

Yes. They are inverse sums. Part of a fact family.

4 If ³⁄₅ of X is £90, what is 5% of X?

7.5

5 Find 105% of 420m

441m

6 Would you prefer to have ²⁄₅ or ½ ½

½

7 Jake says that to decrease any number by 20% you just multiply by 0.8. Is he right? Explain your answer.

Yes. Multiplying by 0.8 gives 80% of a number.

8 I cut 70cm off a length of ribbon so that the ribbon is now 65% of its original length. What was the original length of the ribbon?

200cm / 2m

9 Jane buys a laptop computer for £400 and then sells it two years later for £240. What is her percentage loss?

40%

10 Divide £4200 in the ratio 1:2:3

£700 : £1400 : £2100

BEAT THAT!

Name:

Class:

Date:

The CLIC Challenges! PLATINUM

1 What is ⅗ of 19Kg?

11 ⅖

2 Explain why equivalent fractions are important when adding and subtracting fractions.

The denominator must be the same to add and subtract fractions

3 Explain how to find a percentage of any number. Which are easy? Which are harder?

Times by the decimal value of the percentage.

4 If ⅚ of y is £25, what is ½ of y?

£15

5 What is 200% of 78ml?

156ml

6 What fraction lies half-way between 0.4 and 48%?

¹¹⁄₂₅

7 Decrease 4·3Kg by ¼

32.25kg

8 The number of pupils in my school has increased over the last 3 years from 600 to 630 What is the percentage increase in pupil numbers?

5%

9 A bookshop offers a 15% discount if you buy more than two books. Tim buys 4 books and makes a saving of £3. How much would the books have cost Tim without this discount?

£20

10 Potting compost is made from loam, peat and sand in the ratio 7:3:2. A gardener used 15 litres of peat to make compost. How much loam did she use?

3.5 litres

BIG Maths BEAT THAT!

Name:

Class:

Date:

The BIG CLIC Challenges! PLATINUM

1 In a survey of 40 pupils, ⅜ like basketball, ⅖ like football and the rest like swimming. How many liked swimming?
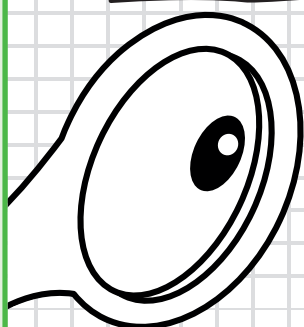
9

2 Take $4\frac{2}{3}$ from $5\frac{1}{2}$

⅚

3 John says that if you increase something by 10% and then by another 10% it is the same as increasing it by 20%. Is he correct? Explain your thinking.

No. After the first 10% the number is 110% of the total. Another 10% makes 121%.

4 If ⅞ of n is 63, what is ¾ of n?

54

5 Increase 75 by 1%.

75.75

6 What fraction lies half-way between ⅜ and 0.75?

⁹⁄₁₆

7 If I increase n by 30% I get 52. What is n?

40

8 A shopkeeper reduces his prices by 10%. A week later he increases them by 10%. Are the prices now back to their original price? Explain your thinking.

No. 10% off gives 90%. Adding 10% back gives 99%

9 Cheryl sells her old bicycle for £45 making a loss of 70% on what she originally paid for it. What was the original cost of the bicycle?

£150

10 A sum of money is shared between Sue and David so that Sue gets 50% more than David. What is the ratio of David's share to Sue's share?

2:3

Andrell Education Ltd

MY LAST SCORE?! ....

HAVE I BEAT THAT?! ....

10