Progress check

Year 3

Mathematics

Paper 2: reasoning and problem solving

Draw an arrow to show 700 on the number line.



1 mark

2 Complete the grid.

| 10 less | Starting number | 10 more |
|---------|-----------------|---------|
| 536 | 546 | 556 |
| 80 | 90 | 100 |
| 292 | 302 | 312 |

4

How much does he spend altogether?

| | 6 | 2 | 9 | + | 8 | 4 | + | 2 | 0 | = | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|--|---|---|----|--|--|
| | 6 | 2 | 9 | + | 2 | 0 | = | 6 | 4 | 9 | | | | | | |
| Show | 6 | 4 | 9 | + | 8 | 4 | = | 7 | 3 | 3 | | | | | | |
| your | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | £ | 7 | 33 | | |
| | | | | | | | | | | | | | | | | |

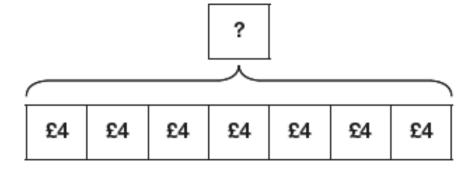
4 margic

5

7 friends pay to go swimming.

It costs £4 per person.

The bar model represents the total amount spent.



How much was spent in total?

$$7 \times 4 = 28$$

£ 28

1 mark

The total for all the girls was £16

How many boys went swimming?

$$£28 - £16 = £12$$

£12 \div £4 each = 3 boys

Complete the number sentences.

$$\frac{7}{8} - \frac{1}{8} > \frac{3}{8} + \frac{2}{8}$$

One possible answer is:

$$\begin{vmatrix} \frac{3}{11} \\ \frac{1}{11} \end{vmatrix} + \frac{\frac{3}{11}}{11} = \frac{\frac{7}{11}}{11} - \begin{bmatrix} \frac{1}{11} \\ \frac{1}{11} \end{bmatrix}$$

Other answers could be

$$\underline{2} + \underline{3} = \underline{7} - \underline{2}$$
 $\underline{1} + \underline{3} = \underline{7} - \underline{3}$ 11 11 11 or 11 11 11

2 marks

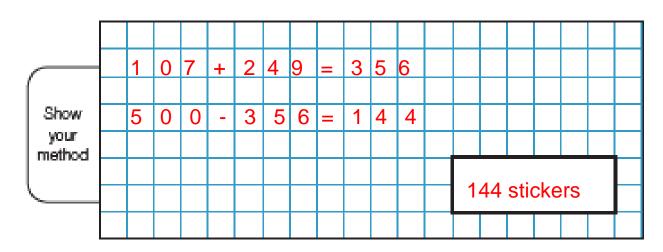
7 Fran, Simon and Abe count their football stickers.

Fran has 107 stickers.

Simon has 249 stickers.

Altogether, the three friends have 500 stickers.

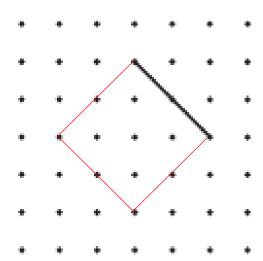
How many stickers does Abe have?



2 marks

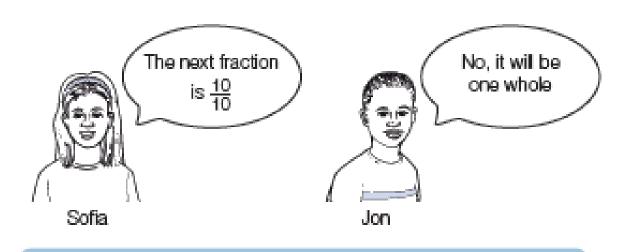
One side of a square is drawn on the grid below.

Complete the square.



Sofia is counting in tenths.

$$\frac{7}{10}$$
, $\frac{8}{10}$, $\frac{9}{10}$



Who is correct?

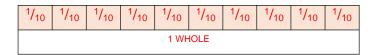
Sofia Jon

Both

Explain your answer.

 $\frac{10}{10}$ is the same as 1 whole. A whole has been split into

10 of those 10 equal parts (denominator) and we're using of those equal parts (numerator) show by this diagram:



$$300 + 30 + 2 = 300 + 40 - 8$$

This is ONE possible answer. As long as both sides of your equation have the same value when you complete the addition and subtraction operations, then your answer will be correct.

1 mark

12 Here is a jug of juice.



Amrit drinks 250ml of the juice.

How much juice is left?

650 ml - 250 ml = 400 ml



At a roller skating dub, children are doing as many laps as possible.

It takes Kate 7 seconds to skate each lap.

She does 9 laps.

How long does it take Kate altogether?

Give your answer in minutes and seconds.

 $7 \times 9 = 63$ seconds

There are 60 seconds in 1 minute.

Kate did 9 laps in 1 minute and 3 seconds.

1 minute and 3 seconds or 63 seconds

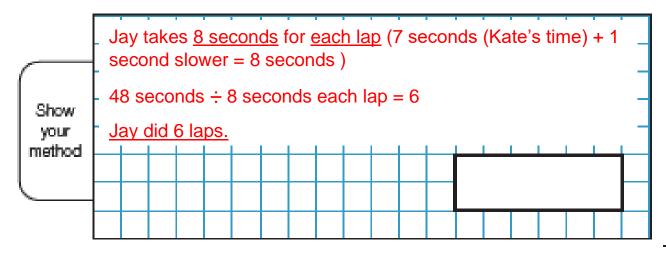


2 marks

Jay is 1 second slower than Kate on each lap.

He skates for 48 seconds.

How many laps does he do?

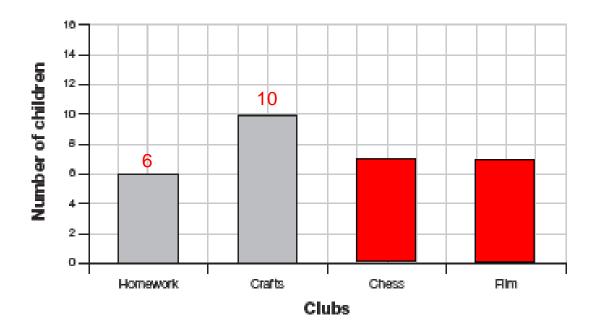


1 mark

This bar chart shows Class 3's dubs.

All 30 children, in the class, go to a club.

The same number of children go to Chess club and Film club.



Complete the bar chart.

Find out how many children are already on the bar chart first: 6 + 10 = 16 Work out the remaining children left: 30 children in total - 16 = 14The same number of children go to chess and film: $14 \div 2 = 7$

CHALLENGE

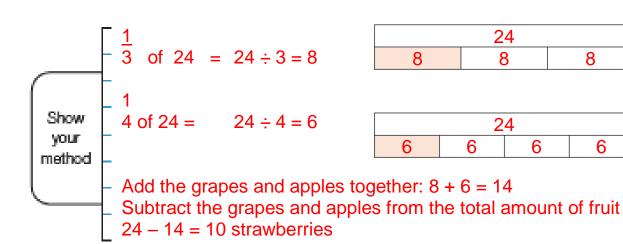
There are 24 pieces of fruit in a bowl.

1/3 are grapes.

1 are apples.

The rest are strawberries.

How many strawberries are in the bowl?



8

6

Friday Maths ANSWERS

1.)

5

45

9

Using each of the three numbers above, complete the number sentences below.

÷

2. Round these numbers to the nearest 100:

3. Write the number that should go in the empty box to make the calculation true.

1

4. Continue the number sequence.

15 10

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| | | | |
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5

| _ | • | |
|---|---|--|
| | 1 | |
| | | |

-5

5.Order these numbers from **smallest to biggest**:

750, 2340, 89, 1245, 579

smallest



| Ö | 9 | |
|---|---|--|
| _ | _ | |
| | | |

| ۰. | • | u |
|----|---|---|
| J | • | J |
| _ | | _ |

| , | 5 | 11 |
|---|---|----|
| • | J | U |
| | _ | _ |

L

| 6 | Complete | the | multi | plication | facts |
|----|----------|-----|-------|-----------|--------|
| U. | Complete | UIC | munci | piication | Tacts. |

1

9.

10. 75 – 48 = **11**. A jar of sweets holds **67 sweets**. Jill put in **another 56 sweets**. How many sweets does she have now?



123

sweets

1

12. Dad bought an ice cream for 65p. How much change will he get from £2?



£1.35

change

$$£2.00 - £0.65 = £1.35$$

Or

$$200p - 65p = 135p$$

1

13.

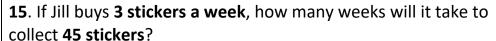
| X | 10 | 8 |
|---|---------------|----------------|
| 8 | (10x8=) 80 | (8 x 8=) 64 |

$$80 + 64 = 144$$

14.

The question should have been:

1





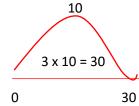




+ 3

39





/4 3

36





16. Jill gets 20p pocket money a week. How much pocket money will she get in 9 weeks?

33

+/3



£1.80

 $20p \times 9 = 180p \text{ or } £1.80$

1

17. Doughnuts are sold in boxes of 6.

If Jill buys 24 doughnuts, how many boxes did she buy?



Boxes of doughnuts

1

 $24 \div 6 = 4$

1

18. I think of a number, double it and add 7. The answer is 23. What was my number?





Work it out backwards using the inverse operation:

$$23 - 7 = 16$$

 $16 \div 2 = 8$

My number was 8.

Check it works: 8 + 8 = 16 (double it) 16 + 7 = 23

19. There are 18 books on the top shelf and 32 books on the bottom shelf. 24 books are taken away. How many books are left on the shelves?



26

books

Work out total number of books first:

$$18 + 32 = 50$$

Take away the 24 books from the total number of books

$$50 - 24 = 26$$
 books