$75 + 5 = 80 + (9-1) = 88$

$88 \times 6 = 528 + 4 = 532$

Don't like the layout! $75+5 \neq 88$

(21)

2 3 5 7 11 13 17 19
23 29, 31 37 41 43 47
53 ~~57~~ 59 61 67 69 71 73

$61 + 71 = 132$
$63 + 71 = 134$

$131 + 2$

(17)

$b^2 = c^2 - a^2$
$b^2 = 9 - 2.56$
$b^2 = 6.44$
$b^2 = \sqrt{6.44}$
$b = 2.54$

3m

c

b

2.75m

a

1.6 m

2.54m

NO

F T 6̶0̶0̶ pupils

175   25   1̶3̶5
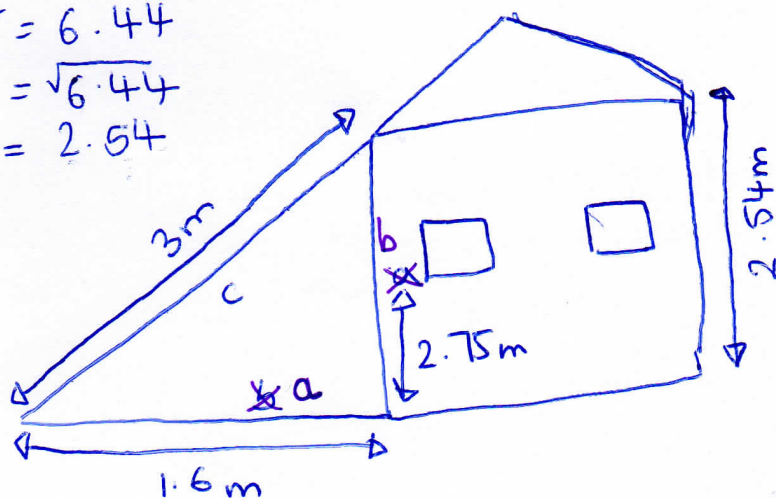
Neither
75

$600 - 75 = 525$
$525 - 400 = 125$

In a school of 600 pupils,
400 have a Facebook
account, 350 have a Twitter
account and 75 have neither.
How many have both?

15

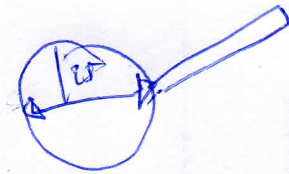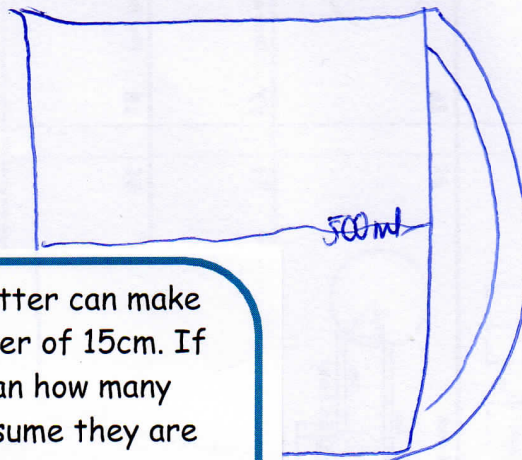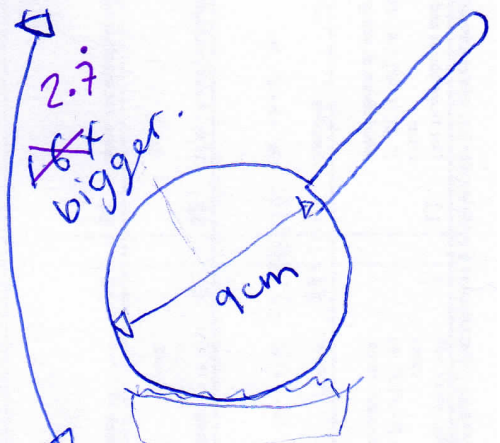500 ml = 12 pancakes
each pancake = diameter of 15cm.

12×2.7
$= 33\frac{1}{3}$ pancakes.

area $= \pi 7.5^2$

2.7
bigger.

9cm
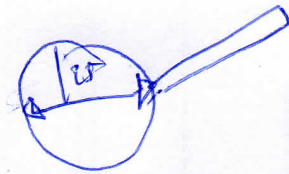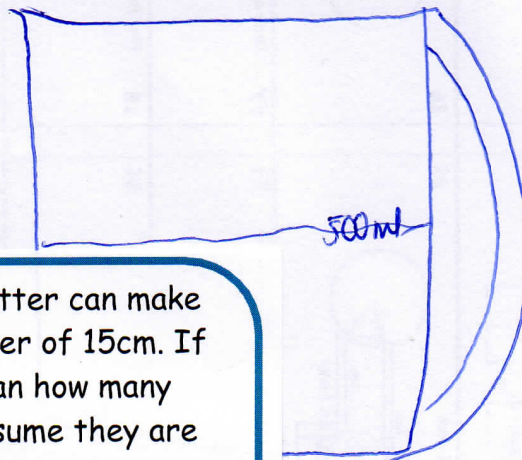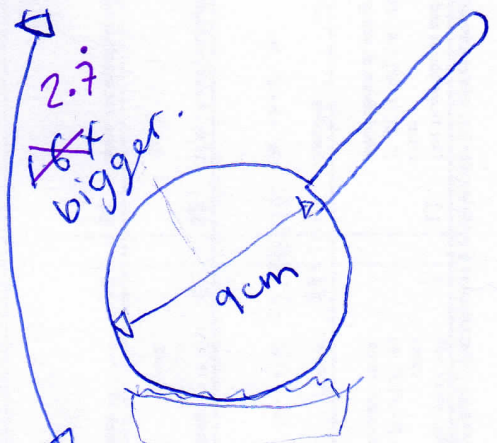
area $= \pi 4.5^2$

500ml

Pancake Day! 500ml of batter can make
12 pancakes with a diameter of 15cm. If
I use a 9cm diameter pan how many
pancakes can I make? Assume they are
the same thickness.

13

M

$= 14 - 6 = 8$ $6 - 2 = 4$

$6 - 4 = 2$ 2 ✓

$? + ? = 4 + 2$ $6 \div 2 = ③$ ✓

$3 + 3 = 4 + 2$

$8 \cancel{4} + 2 = \cancel{10}$ 10 ✓

$10 / 2 = 5$ ✓

⭐ Can you work out what value the different items are?

🍓 + 🍓 + 6 = 14

🍓 + ⚫ = 6

🍓 + 🍓 = 🍓 + ⚫

$\dfrac{\text{🌰}}{\text{⚫}} = \text{🍆}$

🍆 + 🍆 = 🌰

🌰 − ⚫ = 8

24

20

☐ 1	☐ 11	☐ 111

child
4 = 1

child
2 = 1
child
5 = 1

child 1
= 0.75
child 3
= 0.75.
child
6 = 0.75
child 7

⭐ 7 Children are to sit at one of the following tables in order to get the most chocolate. The first 4 have sat at the tables which will give them the most. Where will the 7th child sit?

20   1   2   3

Q16.

5 miles = 8 kilometers

$(70 \div 5) \times 8 = 112 \, km/hr$

$225,000,000 \div 112 =$

2008928.571

$\underset{\substack{\text{(hours in} \\ \text{a day)}}}{24} \times 365 = 8760 \text{ hours/} \atop \text{year}$

$2008928.571 \div 8760 =$

$229.3297456 \text{ years}$

Mars is 225 million km from Earth. If you could drive there at 70mph, how old would you be when you arrive?

5 Ferrari & 3 Bentley cars cost £950,000. 2 Ferrari & 6 Bentley cars cost £1.1million. How much is each?

10

⑩ Ferrari = 100,000
Bentley = 150,000

$8f \left< \begin{array}{l} 10f + 6B = \\ 2f + 6B = \end{array} \right. \dfrac{950,000 \times 2}{1,900,0} \atop 1,100,0$

$\dfrac{800,000 \div 8}{100,000}$

$800,0$

$\dfrac{100,000 \times 5}{500,000}$

$\begin{array}{l} 150,000 \\ - 500,000 \end{array}$

$\div \dfrac{450,000}{3} = 3 \text{ Bentleys} \atop 150,000$

$8 \times 32 = 256$
$29 \times 7 = 203$

$256 - 203 = 53$

Q.22

> ⭐ Eight people on a trip have a mean age of 32. One person leaves and the mean age falls to 29. How old was the person who left?

12

> ⭐ There are 522 episodes of The Simpsons with average length of 22mins. If I started watching them on Saturday at 8am when would I finish?

8

522 episodes
each 22 min

$522 \times 22 =$
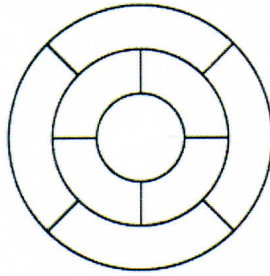
11484

HOURS
~~DAYS~~ =
$11484 \div 60 = 291.4$

DAYS =
$291.4 \div 24 = 7.975$

IF YOU WATCH ALL THE EPISODES FROM SAT AT 8am WHEN WILL YOU FINISH

8

WILL FINISH WATICHING LATE NEXT SATURDAY

2

Q2

a)

b)
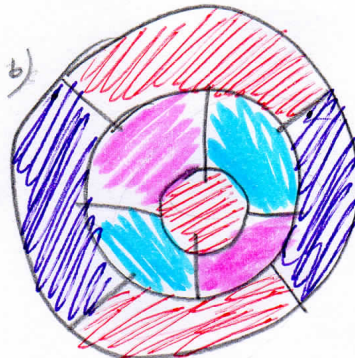

First of all we thought it was first 5 colours

Then we realised it can be done with 4 colours as the same colour can be used on opposite sides

$$\begin{array}{r} 4\ \ {}^{12} \\ \cancel{5}\cancel{3}2 \\ -\ 375 \\ \hline 157 \end{array}$$

18

70 | 630
5 | 45
= 675

70 | 420
5 | 30
= 470 + (6×9) +

53

75 × 5 = 375

9 × 6 × (1 + 4) = 270

75 × 7 = 525
525 + 9 − 5 + 4

(75 + 5) + (9 − 1) × 6
= 532

Using the numbers
75, 9, 6, 5, 4, 1
Make the number 532.

COUNTDOWN

18

F   T   600 pupils

175   25   125

Neither
75

Q15.

$600 - 75 = 525$

$525 - 400 = 125$

15

500 ml = 12 pancakes
each pancake = diamiter of 15cm.

area = $\pi 7.5^2$

2.7
bigger.

12×2.7
$= 33\frac{1}{3}$ pancakes.

500ml

9cm

area = $\pi 4.5^2$

13