How many 1?
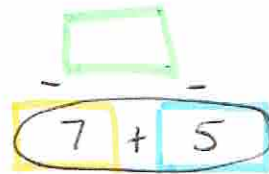
Work out the answer to each story problem. Show how you worked it out.

1. Allison has 7 Woolies animal cards. Her Aunty gives her 5 more cards. How many does she now have?
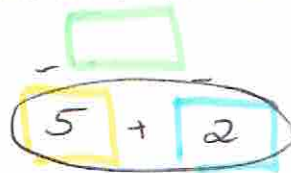
$7 + 5 = \underline{12}$

2. Rachel has 12 pet fish. She has 7 gold fish and the rest are fighting fish. How many fighting fish does Rachel have?
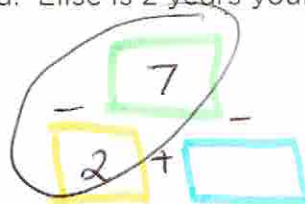
$12 - 7 = \underline{5}$

3. There are 5 boys and some girls at dance practice. All the boys take a girl as their partner. There are 2 girls without partners. How many girls are there?

$5 + 2 = \underline{7}$

4. Mark is 7 years old. Elise is 2 years younger than Mark. How old is Elise?

$7 - 2 = \underline{5}$.

How many 2 ?

Name
....

Year
....

Work out the answer to each story problem. Show how you worked it out.

1. Jenny takes $30 to the bookfair and buys 2 books. If she receives $18.60 change, how much did the books cost?

$$30 - 18.60 = \$ 11.40$$

```
   30
-
18.60    ?
```

2. Steven is standing at this signpost.

▶ Train Station 58m
▶ Shopping Centre 850m

```
   850
-
 58
```

$$850 - 58$$
$$= 792.$$

What is the distance between the train station and the shopping centre?

3. Each student at the school dance is given a can of softdrink and a packet of chips. The organisers have bought 228 cans of softdrink. If 176 students attend the dance, how many cans of softdrink will be left over?

```
   228
-
 176
```

$$228 - 176 =$$
$$52$$

4. At the school athletics carnival Jenny jumps 5.05m in the long jump. Bella jumps 4.75m. How much further did Jenny jump than Bella?

```
   5.05
-
 4.75
```
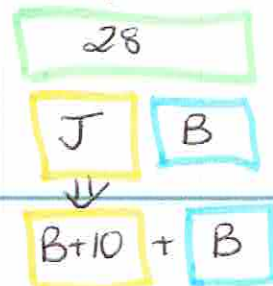
$$5.05 - 4.75$$
$$= 0.3 \ m$$

5. Altogether James and Benny have scored 28 goals for their soccer team. James scored 10 more goals than Benny. How many goals did Benny score?
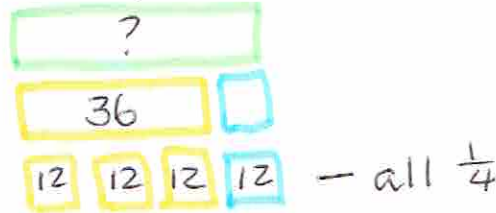
$$B + 10 + B = 28$$
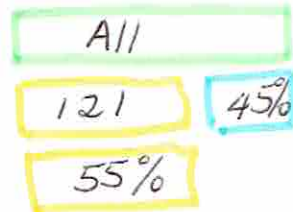$$B + B = 18$$

$$B = 9$$

```
   28
 J    B
 ↓
B+10 + B
```

Work out the answer to each story problem. Show how you worked it out.

1. Jenny buys 2 books at the book fair for $36. If she spent $\frac{3}{4}$ of her money on the books, how much money did she take to the fair?

?

36

12 12 12 12 — all $\frac{1}{4}$
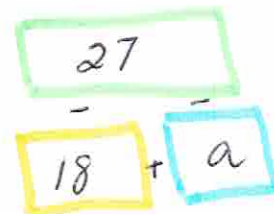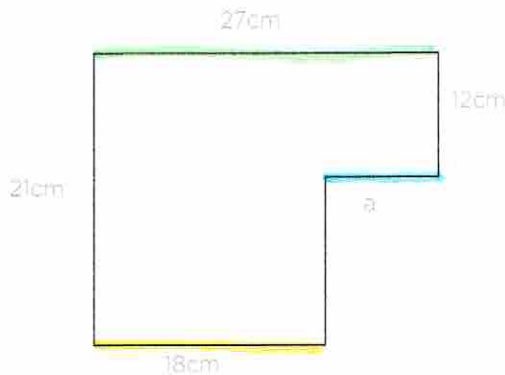
$12 + $12 + $12 + $12

= $48 .

2. 45% of students in Year 8 are boys. If there are 121 girls in Year 8, how many students are there altogether?

All

121   45%

55%

$1\% = 121 \div 55$

$= 2 \cdot 2$

$100\% = 2 \cdot 2 \times 100$

$= 220$.

3. What is the length of the side labelled a?

27cm

12cm

21cm

a

18cm

27

-

18 + a

$27 - 18 = a$

$a = 9$

4. The perimeter of a garden 18.9m. Lachlan uses twice as many pavers to edge the length of the garden as the width. If the pavers are 45cm long, how many pavers does Lachlan use edge the longest side of the garden?

18·9

2W   2W   W   W

W W   W W   W W
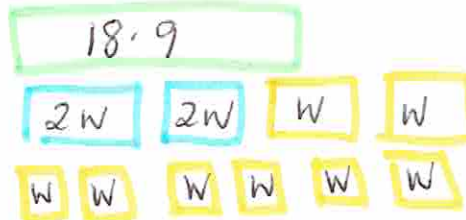
$6 \times W = 18 \cdot 9$

$W = 18 \cdot 9 \div 6 = 3 \cdot 15 m$

$L = 2 \times W = 2 \times 3 \cdot 15 = 6 \cdot 3 m$

Pavers $= 630 \div 45 = \underline{14}$

Empty Boxes

Name
....

Year
....

What numbers and symbols would you use on the calculator to solve the following problems?

1. $17 + \square = 36$ ...... $36 - 17 =$ ....

2. $\square - 27 = 34$ ...... $34 + 27 =$ ....

3. $35 = \square + 16$ ...... $35 - 16 =$ ....

4. $43 - \square = 16$ ...... $43 - 16 =$ ....

5. $462\ 898 + \square = 842\ 701$ ...... $842 \quad\quad - 462\ 898 =$ ......

6. $\square - 15.78 = 12.43$ ...... $12.43 + 15.78 =$ ....

7. $^-12 - \square = 3$ ...... $^-12 - 3 =$ ....

Cupcake Problems 1

Name

....

Year

....

Work out the answer to each story problem. Show how you worked it out.

1. The baker has made 24 cupcakes. He wants to put 4 cupcakes in each box.
    How many boxes will he need?

    24 ÷ | ? | × | 4 |

    $24 \div 4 =$

2. Jessie is putting 3 M&Ms on each cupcake. There are 8 cupcakes.
    How many M&Ms will she need?

    ? ÷ | 3 | × | 8 |

    $3 \times 8 = ?$

3. Fran has 18 cupcakes and 6 plates. How many cupcakes should she put on
    each plate if she wants the same number of cupcakes on each plate?

    18 ÷ | 6 | × | ? |

    $18 \div 6 =$

Cupcake Problems 2

Name
....

Year
....

Work out the answer to each story problem. Show how you worked it out.

1. Lara has 15 cupcakes which she places on a tray. If she places 5 cupcakes in each row, how many rows of cupcakes will Lara have on the tray?

$$\frac{15}{5} \times ?$$

$$15 \div 5 = ?$$

2. Jeff can make chocolate, vanilla, strawberry and choc chip flavoured cupcakes. He uses M&Ms, cherries and sprinkles to decorate the cupcakes. How many different cupcakes can Jeff make?

$$\frac{?}{4} \times 3$$

$$4 \times 3 = ?$$

3. Kate uses 12 M&Ms to decorate 4 cupcakes. How many M&Ms will she need to decorate 20 cupcakes?

$$\frac{12}{4} \times 3 \qquad \frac{\square}{20} \times 3$$

$$20 \times 3 = ?$$

12 ÷ 4 = 3   Per cupcake

4. Coco buys 4 cupcakes for $6. How much will 10 cupcakes cost?

$$\frac{6}{4} \times 1.50 \qquad \frac{\square}{10} \times 1.50$$

$$10 \times 1.50 = ?$$

6 ÷ 4 = $1.50 $1.50 per cupcake

Calculator number sentences 1

Name .... Year ....

Write the equation to solve each problem.

1. Helen rides at an average speed of 5 kilometres per hour. How far does she ride in 3 hours?

$3 \times 5 = 15$

2. Last week at swimming club there were 6 times as many boys racing as girls. There were 18 girls and 36 parents. How many boys were there?

$6 \times 18 = 108$

3. John is going to the school dance. He has 4 pairs of shorts and 5 tops. How many outfits could he choose from?

$4 \times 5 = 20$

4. The canteen had cooked 400 cakes and needed to put them into boxes of 8. How many boxes would they need?

$400 \div 8 = 50$

5. Sara was planting corn. She had 75 seeds and wanted to plant 15 rows. How many seeds are in each row?

$75 \div 15 = 5$

6. If a 3 kilogram bag of apricots costs $12.60, what is the price per kilogram?

$12.60 \div 3 = 4.20$

7. Chicken fillets cost $10.00 per kilogram. Jo buys a tray of chicken fillets for $15.00. How much must the tray of chicken fillets weigh?

$15 \div 10 = 1.5$

8. A picture which has been enlarged three times its original size is now 180mm high. What was its original height?

$180 \div 3 = 60$

9. There are 216 lolly snakes in a box. If there are 27 students in the class how many snakes would each child get?

$216 \div 27 = 8$

10. Some prizes are hidden for a treasure hunt. Simon found 30 prizes and his sister Sharn found 5. How many times more prizes did Simon find than Sharn?

$30 \div 5 = 6$

11. A rectangle of area of 208 m2 has one side 16m long. How long is the other side of the rectangle?

$208 \div 16 = 13$

12. The Burger Place is packed with people. There were about 6 people at each table and there were about 36 tables. About how many people were there?

$36 \times 6 = 216$

Calculator number sentences 2

Name .... Year ....

Write the equation to solve each problem.

---

1. Sienna has been driving at an average speed of 75 kilometres per hour for 3 hours and 20 minutes. How far has she travelled?

? ⬜

(3·3 × 75)

$3·3 × 75 = 247·5$

---

2. In 2006 the average Australian household had 2.6 people. In 1911 the average household was 1.5 times larger. What was the average number of people per household in 1911?

⬜
$1·5 × 2·6$
$= 3·9$
(1·5 × 2·6)

---

3. A girl and a boy are chosen to be class representatives. If there are 15 girls and 8 boys in the class how many different combinations of class representatives could be chosen?

? $15 × 8 = 120$

15 × 8

---

4. Mrs Scott is organising buses to transport 245 students to the swimming carnival. Each bus has 45 seats. What is the minimum number of buses she will need and how many seats will be empty?

245
? 45

$245 ÷ 45$
$= 5·44$

$6 × 45 = 270$

$270 - 245 = 25$

---

5. Drew is stacking square pavers onto a packing crate. He can fit 7 pavers along the length and 5 pavers along the width. If he has 630 pavers, how many layers high will his stack be?

? 630
7 × 5 ⬜ 35

$7 × 5 = 35$ $630 ÷ 35 = 18$

---

6. Freya pays $12.45 for 2/5 of a kilogram of cheese at the deli. How much is the cheese per kilogram?

12·45
$\frac{2}{5}$?

$12·45 ÷ \frac{2}{5}$ $\$31·13$

---

7. Lorraine's car uses 7.8 litres of petrol per 100 kilometres. How far can she travel if she has 50 litres of petrol in her tank?

50 ÷
7·8 6·4 × 100

$50 ÷ 7·8 = 6·4$ $6·4 × 100 = 640$

---

8. Lexi enlarges her photograph so that it is 4.25 times larger than the original. If the photograph is now 29.75cm high, how high was the original photo?

29·75
÷
4·25 ⬜

$29·75 ÷ 4·25 = 7$

---

9. Olive has 1/2 a watermelon. She shares the watermelon equally between 8 people. How much does each person receive?

$\frac{1}{2}$
÷
8 ⬜

$\frac{1}{2} ÷ 8 = \frac{1}{16}$ or $0·0625$

---

10. Sierra's batter recipe requires 5 eggs and 3/4 of a cup of flour. If she only has 3 eggs, how much flour should she use to keep the consistency the same?

3 ÷
? 5 0·6 × $\frac{3}{4}$

$3 ÷ 5 = 0·6$ $0·6 × \frac{3}{4} = 0·45$

---

11. The area of a rectangle is 112.5 m2. The length is twice as long as the width. Find the width of the rectangle.

112·5 $W = \sqrt{56·25}$
$W = 7·5$
2W × W

$W^2 = 112·5 ÷ 2$
$= 56·25$

---

12. Ruby has picked blueberries from her garden to sell at the markets. She packs them into 36 containers each weighing 250 grams. How many kilograms of blueberries did Ruby pick?

? → 9000
36 × 250 ⬜ 1000

$36 × 250g = 9000$
$9000 ÷ 1000 = 9kg$