

## 8. [Word Problems]

### Skill 8.1 Solving word problems using addition.

MM2.2 1 2 3 4  
MM3.1 1 2 3 4

- Write a number sentence using the facts.  
*Hint: Use the terms to help decide on the operation.* (see skill 4.1 pg 79)

**Q.** To ride the monorail at Disneyland takes 9 minutes. The Pirates of the Caribbean ride lasts 16 minutes. If you took both rides, how long would they take?  
[Write the number sentence.]

=  min

**A.**  $9 + 16 = 25$  min

Add the 9 minutes for the first ride, and the 16 minutes for the second ride. 'both' asks for the 'total' which means 'addition'.

**a)** The pasta took 20 minutes to cook. Next the apple pie went into the oven for 45 minutes. How long did everything take to cook?

$20 + 45 = 65$  min

**b)** The Pier 39 Carousel has 32 rides. The LA Zoo Carousel has 34 more rides than the Pier 39 Carousel. How many rides does the LA Zoo Carousel have?

=  min

**c)** Saturn has 33 moons. The other planets in our solar system have 106 more moons. How many moons altogether in our solar system?

=

**d)** The average lifespan of a housefly is 14 days. The average lifespan of a bee is 32 days. For how many days in total are a bee and a fly likely to live?

=  days

**e)** The Rialto Tower in Melbourne has 63 floors. The Eureka Tower has 29 more floors than Rialto Tower. How many floors does the Eureka Tower have?

=

**f)** At Disneyland, the King Arthur Carousel has 68 horses and the Haunted Mansion has 999 spooks. How many horses and spooks all together?

=

**Skill 8.2 Solving word problems using subtraction.**MM2.2 1 1 2 2 3 3 4 4  
MM3.1 1 1 2 2 3 3 4 4

- Write a number sentence using the facts.

*Hint: Use the terms to help decide on the operation.* (see skill 5.1 pg 91)

- Q.** Africa has 54 countries. North America has 23 countries. How many more countries are in Africa than in North America?

$$\boxed{\phantom{000} = \phantom{000}}$$

**A.**  $54 - 23 = 31$

Subtract the smaller number from the larger number.

‘How many more’ asks for the ‘difference’ which means ‘subtraction’.

- a)** There have been 40 missions to Mars but only 15 have been successful. How many missions to Mars have not been successful?

$$\boxed{40 - 15 = 25}$$

- b)** A baseball has 108 stitches and a cricket ball has 70 stitches. How many more stitches does a baseball have?

$$\boxed{\phantom{000} = \phantom{000}}$$

- c)** Chuck had 16 minutes. He took 8 minutes to boil an egg. How much time did Chuck have left?

$$\boxed{\phantom{000} = \phantom{000} \text{ min}}$$

- d)** There are 26 bones and 33 joints in the foot. How many more joints than bones are in the foot?

$$\boxed{\phantom{000} = \phantom{000}}$$

- e)** The brain of a chimpanzee weighs 420 grams. The brain of a horse weighs 530 grams. What is the difference between these weights?

$$\boxed{\phantom{000} = \phantom{000} \text{ g}}$$

- f)** There are 25 birds in the gaggle of geese and 57 birds in the murder of crows. How many more crows are there than geese?

$$\boxed{\phantom{000} = \phantom{000}}$$

- g)** A Chinese checkers board has 121 holes. A scrabble board has 225 squares. How many more squares than holes on these game boards?

$$\boxed{\phantom{000} = \phantom{000}}$$

- h)** South Korea has the world’s longest golf hole. It is 1003 m long. The longest drive ever was 503 m long. What is the difference between these lengths?

$$\boxed{\phantom{000} = \phantom{000} \text{ m}}$$

- Write a multiplication number sentence using the facts.

*Hints: Always multiply to find a number a few times greater than another number.*

*Always multiply to find the total number of parts of some objects, when the number of objects and the number of parts of each object are given.*

- Q.** Septuplets are seven children born at one birth. There are 4 sets of septuplets in the world at the moment where every septuplet survived. How many septuplets is this altogether?

 =

- A.** 4 sets of septuplets  
7 children in each set  
⇒  $4 \times 7 = 28$

- a)** If 1 eyeball weighs 28 grams, how much would 10 eyeballs weigh?

*10 eyeballs, 28 g each*

  $10 \times 28 = 280$  g

- b)** Spiders have 8 legs. If you have 3 spiders, how many spider legs are there altogether?

 =

- c)** One egg costs 50 cents. A loaf of bread costs 7 times more. How much does a loaf of bread cost?

 = \$

- d)** Insects have 6 legs. If you have 9 insects, how many insect legs are there altogether?

 =

- e)** For every 100 people, 9 are likely to be left handed. If there were 300 people in the room, how many would be left handed?

 =

- f)** If you double the height of a 2 year old you get their adult height. Alex was 90 cm when he was 2 years old. How tall will Alex be as an adult?

 = cm

**Skill 8.4** Solving word problems using division.

MM2.2 1 1 2 3 3 4 4  
MM3.1 1 1 2 2 3 3 4 4

- Write a division number sentence using the facts.  
Hint: Always divide to find a number of objects in each group, after equal sharing.  
Always divide by 2 to find one half of a quantity.

**Q.** Christmas cards are wrapped in packs of 10. How many packs are needed to wrap 80 cards?

=

**A.** 80 cards equally shared in packs of 10  
How many groups of 10 in 80?

⇒  $80 \div 10 = 8$

**a)** Men's kayak single race measures 1000 m. Women's kayak single race is half of this. How long is the women's kayak single race?

*1000 m halved*

$1000 \div 2 = 500$  m

**b)** Lydia bought a \$720 watch. She has to pay it in eight equal monthly instalments. How much does she have to pay every month?

= \$

**c)** Eggs are packed in cartons of 12 (a dozen). If you need 48 eggs, how many cartons do you have to buy?

=

**d)** Mary has \$180 in her bank account. She makes equal withdrawals of \$20 each. How many withdrawals can she make?

=

**e)** There are 18 chapters in 'Harry Potter and the Chamber of Secrets'. Laura reads 3 chapters every day. In how many days will Laura finish reading the book?

= days

**f)** There are 9 seats in a minibus. How many minibuses are needed to take all 30 students and their teacher to the Zoo?

=