Year 4 Applied Mathematics

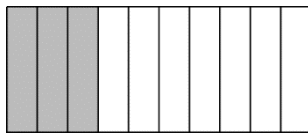## (Measurement, Time, Money, Probability, Graphs, Word problems)

Expectations:

- Convert between different units of measure, (for example, km to m).
- Measure and calculate the perimeter of a 2D figure (cm, m).
- Find the area of shapes by counting squares.
- Estimate, compare and calculate different measures.
- Calculate money problems: addition, subtraction, multiplication, division, and giving change.
- Read, write and convert time between analogue and digital 12- and 24-hour clocks
- Solve problems involving time.
- Measure temperature (degrees Celcius)
- Record statistics and present the data in graph form; read and interpret graphs
- Solve word problems, (number stories)
- Solve probability problems

Word Problems Set A

1. Lily eats 15 bananas on Monday, 8 on Tuesday and 12 on Wednesday. How many does she eat altogether over the three days?

2. Sam is thinking of a number. He subtracts 20 and is left with 23. What number was he thinking of?

3. John has 23 toy cars and David has 34 toy cars. How many have they got in total?

4. What is the difference between 13 and 36?

5. What is the sum of 12, 13 and 14?

6. John has to shovel 234 buckets of soil to earn his pocket money. He's already shoveled 62 of them. How many more buckets-full does he have to shovel?

7. Billy weighed 70 kg before he took part in the World Cake Eating Championships. He weighs 107 kg afterwards. How many kg of weight has Billy gained?

8. Naomi has 159 books on her bookshelves and 42 books on her table. She lends 19 books to her friend Sarah. How many books does she have now?

9. A farmer sold 312 cabbages on Saturday and 89 on Sunday. How many cabbages did he sell over the week-end?

10. Jenna has 38 fewer toy cars than Alex. If Alex has 104 cars, how many does Jenna have?

Word Problems Set B

1. Write as a decimal fraction: a) the shaded part   b) the unshaded part
2. A plane flew 2400 km at a speed of 800 km/hour. How long did the journey take?
3. How many 600 ml bottles can be filled from 6 litres?
4. The perimeter of a square is 600 mm. Find the length of one side.
5. The first day of the school holidays was September 17th. He returned to school on October 2nd. How many days was he on holidays?
6. The sum of 3 numbers is 94. Two of the numbers are 36 and 35. What is the third number?
7. How many weeks will Peter take to save $5.00 if he saves 25 cents each week?
8. Which of these numbers can be divided by both 4 and 9?.... 36, 54, 64, 72

Probability Problems

Probability: Days of the week

Find the probability of selecting a day starts with the letter W.

Find the probability of selecting a day starts with the letter T.

Find the probability of selecting the weekends.

Find the probability of selecting a Sunday.

Probability: Coin Toss

Find the probability of showing head

Find the probability of showing tail

Find the probability of showing either head or tail

Find the probability of showing neither head nor tail

Probability: Choosing coloured balls

O   O   O   O   O   O   O   O

red white red   blue white white blue green

If these balls were in a bag, and you were blindfolded:

Which colour ball is least likely to be drawn?

What is the probability of picking the green ball?

What is the probability of selecting a white ball?

What is the probability of selecting a red ball?

What is the probability of selecting a blue ball?