# Home learning: 25<sup>th</sup> May 2020

# <u>Maths</u>

This week we will be focusing on multi-step problems, involving addition, subtraction, multiplication and division.

Firstly, we're going to recap how to use the four operations correctly, using the diagrams to help you.



# **Complete the following:**

3201 + 265 = 263 x 6 = 365 - 172 = 102 ÷ 6 = 7090 + 777 = 560 x 31 = 5876 - 509 = 695 ÷ 5 = 5867 + 906 = 273 x 15 = 568 - 393 = 266 ÷ 7 =

Secondly, we will recap the vocabulary that is used in questions that help us to identify which operation(s) needs to be used. Write down as many words you can think of that mean the same as addition, subtraction, multiplication and division.

Addition	<u>Subtraction</u>
Multiplication	Division

It's important we identify the key information that we will need for each question before we start calculating. Do you remember using CUBES in our maths lessons?



Before starting our multi-step problems, we're going to try some single step problems, remembering to use CUBES to ensure we get the right answer. When you're feeling confident, move onto the multi-step problems.

### Single step problems:

- 1. Subtract 82,508 by 25,629.
- 2. Mrs Hextall needs to order some new whiteboard pens. She orders 18 boxes. Each box contains 24 pens. How many pens are ordered?
- 3. There are 13,561 people in Wembley on Saturday and 45,761 on Tuesday. How many people visited the stadium on Monday and Tuesday?
- 4. Daniel jogs 1,362m and runs 1,880m. Find the total distance covered.
- There are 5,718 video DVDs in Mr. Miller's shop and 2,199 audio DVDs. Find the total number of DVDs in Mr Miller's shop.
- 6. Ben loves bouncy balls. He has been so good this term that Mr Jones buys him a packet of 19 balls. Ben goes out to play and bounces each ball 46 times. How many times were the balls bounced altogether?

- 7. Clara withdrew £6,789 from her account. The initial amount in her account was £8,790. Find the balance left after the withdrawal.
- Cathy scored 2,560 points on level 2 in a video game.
   She then scored 1,254 points on level 3. How many points did she score in level 2 and 3?
- 9. Jess bought a brand new car for £26,086. The estimated value of the car after 5 years is £15,990. If she sells the car after 5 years, how much less money would she have?
- 10. Lewis takes a train to London. Each train carriage can carry 66 passengers. The train as 13 carriages. What is the total number of passengers that the train can carry?
- Sarah tickled Monty the guinea pig 64 times in 18 days. How many tickles per day did Monty receive?

Now you should be ready to give some multi-step problems a go! Don't forget to use CUBES to help you!

#### Multi- step problems:

 Jane wins £802,649 on the lottery one week and £100,876 on a scratch card the following week. She shares the winnings equally between her 3 children. How much money do they get each?

2. Jae had £467,330. He went shopping and spent £126,309. If he got another £366,892 for his allowance, how much money does he have now?

3. Scott bought twenty-four bags of sweets with eighty-six pieces in each one. He plans to divide all the sweets evenly among eight friends. How many sweets will they each get?

4. The Headmaster is taking all of a secondary school on a trip to Alton Towers. There will be 1836 children and 264 teachers going along. How many 5-seater cars will he need to use?

5. Filbert was playing a video game and had a score of 200,000. In a hard part of the game he lost 106,848 points. If he got 329,404 more points in the next level, how many points would he have?

The school ordered 1,230,868 fish fingers and 2,416,092 chips for a very hungry school. But, if 832,909 chips and 355,712 fish fingers did not get eaten. How many extra fish fingers and chips did the school end up with?

7. Joe loved Lego. He had 576,175 Lego bricks before selling 216,175 of them. He split the remaining bricks equally into 8 boxes. How many bricks were in each box?

8. A salesman bought a case of 48 backpacks for £576. He sold 17 of them for £18 to friends, and the rest were sold to a shop for £47 each. How much was the salesman's profit?

9. Bristol zoo recorded its visitors over a four week period.In the first week there were 430,242 visitors. In the second,639,242 people visited the zoo. In the third and fourth week,

a combined total of 1,620,942 people visited the zoo. How many people visited the zoo in the four week period?

10. Bruce Wayne invited 4,400 friends to a birthday party, but 2,842 couldn't come. If he wanted to buy enough Coke so each person could have exactly 3, how many should he buy?

11. A car costs £206,399. In the sale, it has £96,250 off. Harry buys the car and three Rolex watches that cost £12,599 each. How much does he spend in total?

12. Barry has 50 litres of fuel in his car and his petrol tank is full. On a journey to Wales, he uses 30 litres of fuel. On a journey to the shop, he used 2,750ml of fuel. How much fuel will he have to put back in to fill the tank?

13. In a garden centre, rose seeds cost £1.38, lily seeds cost £1.15 and daffodil seeds cost 85p. Jan buys eight packets of rose seeds and 12 packets of daffodil seeds. How much change does she get from a £50 note?

#### <u>Answers</u>

Four operations: 3201 + 265 = 3466  $263 \times 6 = 1578$  365 - 172 = 193 $102 \div 6 = 17$ 

- 7090 + 777 = 7867 560 x 31 = 17,360 5876 - 509 = 5367 695 ÷ 5 = 139 5867 + 906 = 6773 273 x 15 = 4095
- 568 393 = 175

266 ÷ 7 = 38

Single step problems:

- 1. 56,879
- 2. 432
- 3. 59,322
- 4. 3,242m
- 5. 7,917
- 6. 874
- 7. 2,001
- 8. 3,814
- 9. £10,096
- 10.858
- 11. 1,152

#### Multi-step problems:

<ol> <li>£707,913</li> <li>258</li> <li>420</li> <li>422,556</li> <li>FF: 875,156 Chips: 1,583,183</li> <li>45,000</li> <li>£1,187</li> <li>2,690,426</li> <li>4,674</li> <li>£147,946</li> <li>17.250L</li> <li>£28,76</li> </ol>	1.	£301,175
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