**Maths (Mrs Goldsmith’s Group)**

**Week 1**

* Multiply proper fractions and mixed numbers by whole numbers;
* Convert percentages, fractions and decimals of numbers. Fill in table below:

|  |  |  |
| --- | --- | --- |
| **Fraction** | **Decimal** | **Percentage** |
|  |  |  |
|  |  |  |
|  | 0.25 |  |
|  |  |  |
|  |  |  |
|  |  | 75% |
|  |  |  |
|  | 0.06 |  |
|  | Convert the following fractions into decimals. |
| **a** |  | **d** |  | **g** |  |
| **b** |  | **e** |  | **h** |  |
| **c** |  | **f** |  | **i** |  |
| 2. | Convert the following decimals into percentages |
| **a** | 0.68 | **d** | 0.7 | **g** | 0.125 |
| **b** | 0.16 | **e** | 0.9 | **h** | 0.175 |
| **c** | 0.06 | **f** | 0.41 | **i** | 0.003 |
| 3. | Convert the following percentages into decimals |
| **a** | 80% | **d** | 18% | **g** | 0.3% |
| **b** | 43% | **e** | 94% | **h** | 6% |
| **c** | 1% | **f** | 35.6% | **i** | 100% |
| 4. | Convert these percentages to fractions |
| **a** | 50% | **d** | 45% | **g** | 35% |
| **b** | 90% | **e** | 16% | **h** | 2% |
| **c** | 25% | **f** | 4% | **i** | 95% |
| 5. | Convert these decimals to fractions |
| **a** | 0.7 | **d** | 0.45 | **g** | 0.01 |
| **b** | 0.8 | **e** | 0.65 | **h** | 0.05 |
| **c** | 0.4 | **f** | 0.08 | **i** | 0.12 |

**Maths (Mrs Goldsmith’s Group)**

* Find perpendicular lines and parallel lines in objects around the house. How many can you find? Draw and label five of the objects;
* Complete task below:
1. In a bag of marbles, there are 12 marbles. ½ are blue. How many blue marbles are there?
2. On a bus there are 16 passengers. ½ are children. How many children are there?
3. I win £9 on the lottery, but give 1/3 away – how much do I give away?
4. In the classroom there are 15 children. 1/3 like maths. How many children like maths?
5. I threw away 20 Kg of rubbish, but recycled 1/4 of it. How much rubbish did I recycle?
6. A shark chases 24 fish, and eats 1/4 of them – how many does it eat?
7. There is 15ml of pop in my bottle, but I spill 1/5 of it – how much do I spill?
8. I am reading a comic which is 25 pages long. I have read 1/5 of it. How many pages have I read?
9. I had 28 smarties, but ate ¼ of them. How many smarties are left?

1. I had 21p but spent 1/3 on a comic, how much have I got left?

Can you write story problems for these sums, and then work out the answers?

a) ½ of 14. b) 1/3 of 12. c) ¼ of 12.

Fractions of Whole Numbers Odds

***Remember, for ½, halve it, for ¼ halve it twice, for 1/3 share by 3, and for 1/5 share by 5.***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 16 | 20 | 28 | 40 |
| ½ of |  |  |  |  |
| ¼ of |  |  |  |  |
|  |
|  | 9 | 15 | 24 | 36 |
| 1/3 of  |  |  |  |  |
| 2/3 of |  |  |  |  |
|  |
|  | 15 | 20 | 35 | 50 |
| 1/5 of  |  |  |  |  |
| 2/5 of |  |  |  |  |

***Brain Stretchers:***

What is ½ of 24? 15 is half of what number?

6 is 1/3 of what number?

I spent 3/4 of my money and had £10 left. How much did I have to start with?