Year 5 and 6 Maths

Week 4

Contents

Mental Maths Warm Up

DAY ONE

15	23
15	
17	8

Spend a few minutes adding those numbers in your head. Did you look for pairs? Which numbers did you 'pair up'? Why?

Now try this one!

24	12
6	
12	36

Spend a few minutes adding those numbers in your head. Did you look for pairs? How about trios of numbers? Why?

Now try these!

122 + 58   137 + 193   225 + 385

Main Maths Activity

1 x 27p = 27p
2 x 27p = 54p
4 x 27p = £1.08
8 x 27p = £2.16
3 x 27p = 81p
5 x 27p = £1.35
6 x 27p = £1.62
7 x 27p = £1.89
9 x 27p = £2.43
10 x 27p = £2.70

1 x 35p = 35p
2 x 35p = 70p
4 x 35p = £1.40
8 x 35p = £2.40
3 x 35p = £1.05
5 x 35p = £1.75
6 x 35p = £2.10
7 x 35p = £2.45
9 x 35p = £3.15
10 x 35p = £3.50

What pattern is being followed when working out the multiple packets of sweets?

1 x packet

2 x (double one packet's cost)

4 x (double two packets' cost)

8 x (double four packets' cost)

3 x (add together one and two packets' cost)

5 x (add together one and four packets' cost)

6 x (double three packets' cost)

7 x (add three and four packets' cost)

9 x (add together five and four packets' cost OR eight and one)

10 x (double five packets' cost)

You can then also work out 15, 20, 23, 45….

Anything!

1) How much would 3 Twirls and 2 packets of Maltesers cost? _____

2) How much would 1 Twirl and 4 packets of Maltesers cost? _____

3) How much would 5 Twirls and 3 packets of Maltesers cost? _____

4) How much would 10 Twirls and 5 packets of Maltesers cost? _____

5) How much would 7 Twirls and 3 packets of Maltesers cost? _____

6) How much would 6 Twirls and 9 packets of Maltesers cost? _____

7) How much would 2 Twirls and 2 packets of Maltesers cost? _____

Can you calculate the price of multiple packs of Revels?

1 x 40p =

2 x 40p =

4 x 40p =

8 x 40p =

3 x 40p =

5 x 40p =

6 x 40p =

7 x 40p =

9 x 40p =

10 x 40p =

Can you calculate the price of multiple packs of Snickers?

1 x 52p =

2 x 52p =

4 x 52p =

8 x 52p =

3 x 52p =

5 x 52p =

6 x 52p =

7 x 52p =

9 x 52p =

10 x 52p =

Mental Maths Warm Up

DAY TWO

Double 90. _____

Multiply six by nine. _____

Add together twenty, twenty-three and twenty-six. _____

A number multiplied by four equals two hundred and eighty. _____

What is the number? _____

Write zero point seven as a fraction. _____

Halve twenty-seven. _____

The temperature was three degrees Celsius. It goes down by eight degrees.

Write the new temperature. _____

Add three point three to seven point seven. _____

What is 20 out of 40 as a percentage? _____
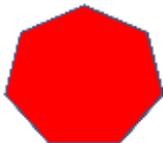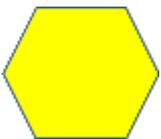
How many sides would 8 pentagons have? _____

How many sides would 9 hexagons have? _____

How many sides would 6 heptagons have? _____

I total, how many sides would 7 pentagons, 12 pentagons and 11 heptagons have? _____

Main Maths Activity

Do you remember the pattern of multiplication from yesterday?

Let's have another go and make it a little harder!

What pattern is being followed when working out the multiple packets of sweets?

1 x packet

2 x (double one packet's cost)

4 x (double two packets' cost)

8 x (double four packets' cost)

3 x (add together one and two packets' cost)

5 x (add together one and four packets' cost)

6 x (double three packets' cost)

7 x (add three and four packets' cost)

9 x (add together five and four packets' cost OR eight and one)

10 x (double five packets' cost)

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1 x £1.99 =	1 x £1.19 =	1 x £2.79 =
2 x £1.99 =	2 x £1.19 =	2 x £2.79 =
4 x £1.99 =	4 x £1.19 =	4 x £2.79 =
8 x £1.99 =	8 x £1.19 =	8 x £2.79 =
3 x £1.99 =	3 x £1.19 =	3 x £2.79 =
5 x £1.99 =	5 x £1.19 =	5 x £2.79 =
6 x £1.99 =	6 x £1.19 =	6 x £2.79 =
7 x £1.99 =	7 x £1.19 =	7 x £2.79 =
9 x £1.99 =	9 x £1.19 =	9 x £2.79 =
10 x £1.99 =	10 x £1.19 =	10 x £2.79 =

Can you add and multiply to find the cost of these chocolates?

Twirl	Maltesers	revels	SNICKERS	MATCHMAKERS	DAIRY MILK	Roses
27p	35p	40p	52p	£1.99	£1.19	£2.79

Mental Maths Warm Up

Divide six hundred by twenty-five. _____

Subtract three hundred and ninety-nine from eight hundred. _____

Add twelve to twenty-nine. _____

What is two hundred and sixty-three rounded to the nearest hundred? _____

What number is halfway between zero point three and zero point four? _____

Write one prime number that is between twenty and thirty. _____

Put a ring around the greatest number.

4.805   4.085   4.85   4.508   4.58

What is 3x3 added to 4x4? _____

Subtract 1.9 from 2.7. _____

Each bag of sweets weighs 25g. How many bags will weigh 500g?

_____

The bags cost 30 pence each. How much would 375g worth cost you?

_____

You spend £7.20. How many bags did you buy? _____

It takes 82 Lego bricks to build a house. _____

Sarah builds 6 houses. How many bricks did she use? _____

She adds a chimney to each house using another 42 bricks. _____

How many bricks are in each chimney? _____

Main Maths Activity

Using a similar method to patterns of multiplication, we can work out percentages of numbers. The order you can work the percentages out in:

100% (the whole amount)

50% (half of the whole amount)

25% (half of 50%)

75% (add together 50% and 25%)

10% (divide 100% by 10)

5% (half of 10%)

1% (divide 100% by 100)

2% (double 1%)

15% (add together 10% and 5%)

You get the idea!

An XBOX 1 costs £250

100% = £250

50% = £125

25% = £62.50

75% = £187.50

10% = £25

5% = £12.50

1% £2.50

2% = £5.00

15% = £37.50

Can you work our these percentages for the XBOX 1?

77% _____

23% _____

98% _____

38% _____

What are the easiest ways of working these out? Addition? Subtraction?

An bicycle costs £300

100% = £

50% = £

25% = £

75% = £

10% = £

5% = £

1% £

2% = £

15% = £

Can you work out the different percentages of the cost of the bicycle?

If there as a sale and you were able to get a 25% discount on the full price, what would you pay?

How much would you pay if you were able to convince the shop owner to give you a 45% discount?

The bicycle comes in pieces! You need to pay 15% of the full price extra to have the bicycle put together! How much will the bike and the extra service cost?

An television costs £430

100% = £

50% = £

25% = £

75% = £

10% = £

5% = £

1% £

2% = £

15% = £

Complete the percentages!

Mental Maths Warm Up

DAY FOUR

Divide seventy-two by eight. _____

What is seven point five multiplied by one thousand? _____

What is the sum of two and four and six and eight? _____

Subtract twenty-five from eight hundred. _____

Multiply thirty-five by six. _____

Nine is half of a number. What is one-third of the number? _____

Write one-tenth as a decimal. _____

What is half of nine added to half of eight? _____

How many 40s are there in 800? _____

A packet of sweets costs 47p.
If you pay with a £2 coin, how much change will you be given?

You decide to have a drink as well. The drink costs 58p.
How much do you have left?

When you are given the change, you have four coins. What must the coins be?

David gets up at 7am. At 7.45am he's ready to leave the
house and catch the school bus.
How long did it take him to get ready?

The bus takes 23 minutes to get to his school.
What time does it arrive there if it left his
house at 7.55am?

Lessons start at 8.40am. How long has David been out
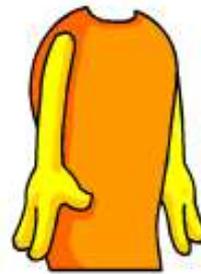of bed when lessons start?

Main Maths Activity

Ben is building aliens from his model kit.
There are two types of head, two types of body and two types of feet.
How many different aliens can he make using all possible combinations of head, body and feet?

Alien Number	Yellow or Blue Head	Yellow or Blue Body	Yellow or Blue Feet

An ice cream shop sells three flavours of ice cream: strawberry, chocolate and vanilla.

How many combinations of triple-scoop (3 scoops) can the shop sell using the three flavours?

Using your learning from Ben's alien model building, how could you set out your work for this question?

Think carefully about the titles you would give each column.

Mental Maths Warm Up

DAY FIVE

How many fifties are there in one thousand? _____

Write in figures six thousand two hundred and four. _____

Multiply seven by four. _____

What is half of eight thousand five hundred? _____

Add together eighty-five and ninety-five. _____

What is double thirty-six? _____

Divide forty-two by seven. _____

Subtract three point six from ten. _____

Double twenty-three, then double the answer. _____

Subtract two point five from ten. _____

What is the remainder when you divide forty-eight by five? _____

There are 45 sandwiches to be arranged equally on 3 trays.
How many sandwiches on each tray?

You decide to put the sandwiches equally on 9 trays instead.
How many on each tray now?

How many bunches of 4 can be made from 52 flowers?

How many bunches of 3 can be made from 72 flowers?

How many bunches of 7 can be made from 105 flowers?

How many bunches of 8 can be made from 144 flowers?

Main Maths Activity

	Greater than ½	Less than ½
0.1		
3%		
$\frac{3}{8}$		
0.68		

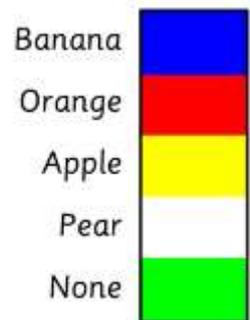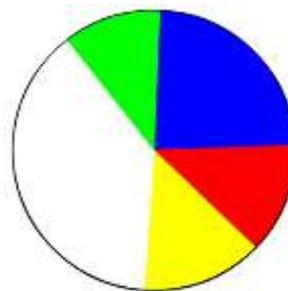**SUCCESS CRITERIA:**
Turn each number into the same type of number: CONVERT!

1) What decimal is equivalent to ½? Jot this at the top of the table.
2) Divide the percentages by 100 to find the equivalent decimal.
3) Remember that a fraction is also a calculation – a division calculation! Do the calculation to find the equivalent decimal.
4) Jot these down and then use them to work out if they are greater than ½.

Now try these!

	Greater than ½	Less than ½
0.99		
12%		
$\frac{5}{8}$		
0.51		

	Greater than ½	Less than ½
0.37		
53%		
$\frac{7}{8}$		
0.42		

Choice	%	Decimal	Fraction
Banana			
Orange			
Apple			
Pear			
None			

Banana
Orange
Apple
Pear
None

Can you fill in the table based on the pie chart?

There were 28 children in the class.

Helen Ackrill 2020

Now try these!

	Greater than ¾	Less than ¾
0.77		
84%		
$\frac{3}{8}$		
0.42		

SUCCESS CRITERIA:
Turn each number into the same type of number: CONVERT!
What decimal is equivalent to ¾? Jot this at the top of the table.

1) Divide the percentages by 100 to find the equivalent decimal.
2) Remember that a fraction is also a calculation – a division calculation! Do the calculation to find the equivalent decimal.
3) Jot these down and then use them to work out if they are greater than ¾.

	Greater than ¾	Less than ¾
0.77		
84%		
$\frac{3}{8}$		
0.42		

	Greater than ¾	Less than ¾
0.89		
65%		
$\frac{5}{8}$		
72%		

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