Wednesday 24th June   Y4 Maths

Good morning Year 4s, for maths today, please go to https://whiterosemaths.com/homelearning/year-4/ and find Summer term - week 9 and watch the video **'Ordering Money'** and then complete the worksheet.

There are two more **challenges** below. (Answers on last page)
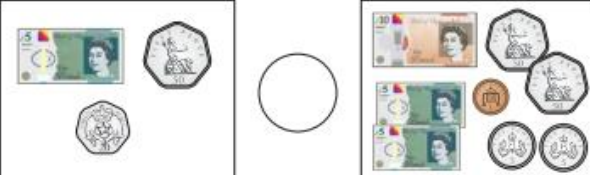
Rose Maths

Ordering money

1 What is the value of the digit 2 in these amounts?

a) 524p _____

b) £24 and 50p _____

c) £54.02 _____

d) 5,240p _____

e) £42.54 _____

f) 2,544p _____

2 Write <, > or = to compare each pair of amounts.

a)

   ◯

b)

   ◯

c) How did you compare the amounts?

3 Draw three coins in each box to make the statements correct.

£26.70   <

£26.70   >

£26.70   =

Is there more than one way to make each statement correct?

4 Write <, > or = to compare the amounts.

a) 743p ◯ 734p

d) £40.07 ◯ 4,003p

b) £37.40 ◯ £37.04

e) 4,037p ◯ £40.37

c) £3.74 ◯ 734p

f) 7,304p ◯ £73.40

5 a) Write the amounts in ascending order.

270p   2,007p   2,700p   720p   7,020p

_____

b) Write the amounts in descending order.

£4.65   £46.50   £6.45   £45.60   £46.05

_____

c) Write the amounts in ascending order.

£21.89   1,289p   8,291p   £82.19   9,128p

_____

d) Write the amounts in descending order.

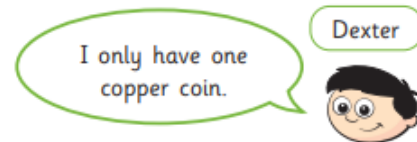£5.05   550p   5,500p   £50.50   £55.05

6 Huan has three different silver coins in his hand.
What amounts could he have?
Write them in ascending order.

_____

7 Teddy has £6.55 and Annie has 673p.

Dexter has more money than Teddy, but less than Annie.

I only have one copper coin. — Dexter
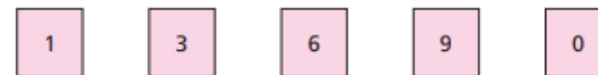
a) How much money could Dexter have? £ ▢

b) What different amounts can you find?

8 What could the missing amount of money be?

369p < £ ▢ ▢ . ▢ ▢ < £16.63

Use the digit cards to complete the inequality.

| 1 | | 3 | | 6 | | 9 | | 0 |

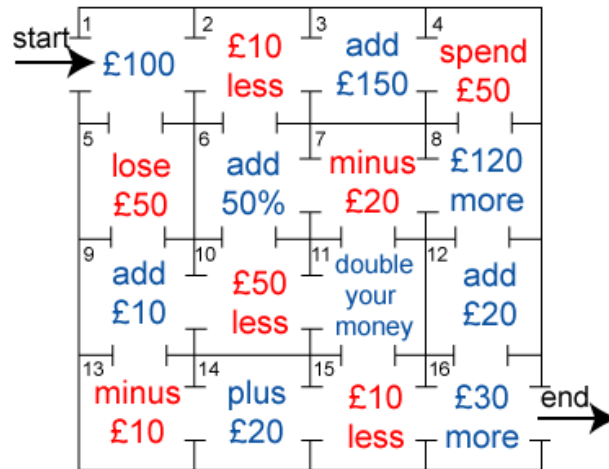Use each digit card once only.
You do not need to use every card.
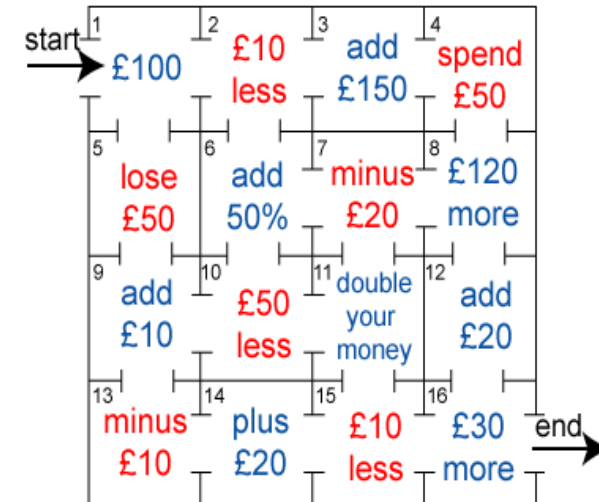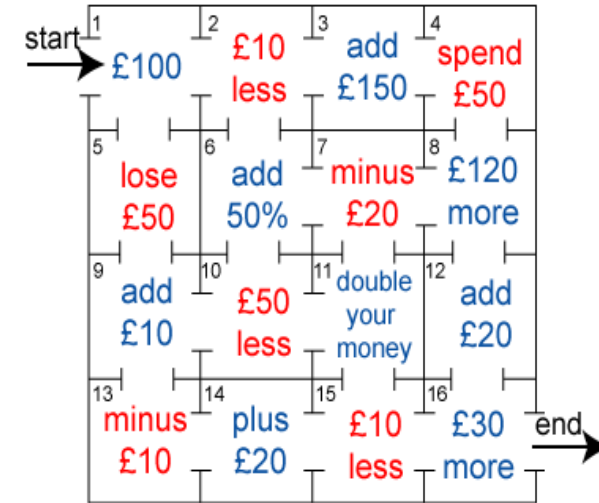Compare answers with a partner. How many different answers can you find?

Challenge 1

The Money Maze

Age 7 to 11 ★

Go through the maze, collecting and losing your money as you go. You may not go through any cell more than once, and can only go into a cell through a gap, for example, you may not go from 5 to 6, or from 7 to 3.

start 1	2	3	4
£100	£10 less	add £150	spend £50
5	6	7	8
lose £50	add 50%	minus £20	£120 more
9	10	11	12
add £10	£50 less	double your money	add £20
13	14	15	16
minus £10	plus £20	£10 less	£30 more end

Which route gives you the highest return? How much is it?
Which route gives you the lowest return? How much is it?

start 1	2	3	4
£100	£10 less	add £150	spend £50
5	6	7	8
lose £50	add 50%	minus £20	£120 more
9	10	11	12
add £10	£50 less	double your money	add £20
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minus £10	plus £20	£10 less	£30 more end

start 1	2	3	4
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lose £50	add 50%	minus £20	£120 more
9	10	11	12
add £10	£50 less	double your money	add £20
13	14	15	16
minus £10	plus £20	£10 less	£30 more end

Challenge 2

Penta Post

Age 7 to 11 ★

Here are the prices for 1st and 2nd class mail within the UK [in 2002].

Weight up to	First Class	Second Class
60g	27p	19p
100g	41p	33p
150g	57p	44p
200g	72p	54p
250g	84p	66p
300g	96p	76p
350g	£1.09	87p
400g	£1.30	£1.05
450g	£1.48	£1.19
500g	£1.66	£1.35
600g	£2.00	£1.60
700g	£2.51	£1.83
750g	£2.69	£1.94*
800g	£2.91	
900g	£3.20	
1kg	£3.49	

Costs for First Class items over $1kg$ are £3.49 and then $85p$ for each extra $250g$. *Items over $750g$ cannot be sent second class.

You have an unlimited number of each of these stamps:

| 4p | 10p | 19p | 27p | 37p | £1.00 |

1/ Which stamps would you need to post a parcel weighing $825g$?

2/ I want to send a package 1st class which weighs $235g$. It is very small so I want to use as few stamps as possible. Which ones would I use?

3/ If I only had 3 of each kind of stamp, which 2nd class price could I not make?

4/ How many different combinations of stamps could be stuck on a letter weighing $140g$ if it goes 1st class?

5/ I use the following stamps to send two items, one 1st class and the other 2nd class:

What could their weights be?

Further extension to this activity can be carried out by considering the value of the stamps alone, as numbers 4, 10, 19, 27, 37 & 100. For example taking the 5 lowest numbers [missing out the 100] challenging the pupils to come up with the smallest number of ways you can get totals between 4 and 50. This could lead to questions about what totals can NOT be had, and checking to see if you've really got the smallest number of ways, each time.

Answers to yesterday's challenges and today's White Rose Maths

Challenge 1 The crisps would cost 60p and the ice cream would cost £1.20 making my solution £1.80

Challenge 2 The cost of the chocolate bar is 51p.

Ordering money

1 What is the value of the digit 2 in these amounts?

a) 524p _20p_

b) £24 and 50p _£20_

c) £54.02 _2p_

d) 5,240p _£2_

e) £42.54 _£2_

f) 2,544p _£20_

2 Write <, > or = to compare each pair of amounts.

a) △

b) ▽

c) How did you compare the amounts?

3 Draw three coins in each box to make the statements correct.

e.g.

£26.70 < (£1)(£1)(£1) | (£1)(£1)(£1)

£26.70 > (£1)(10p) | (1p)(1p)

£26.70 = (£1)(£1) | (£2)(50p)

Is there more than one way to make each statement correct?

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4 Write <, > or = to compare the amounts.

a) 743p ∧ 4,003p

b) £37.40 ∧ £37.04

c) £3.74 ∨ 734p

d) £40.07 ∨ £40.37

e) 4,037p = £40.37

f) 7,304p ∨ £73.40

5 a) Write the amounts in ascending order.

270p   2,007p   2,700p   720p   7,020p

_270p   720p   2,007p   2,700p   7,020p_

b) Write the amounts in descending order.

£4.65   £46.50   £6.45   £45.60   £46.05

_£46.50   £46.05   £45.60   £6.45   £4.65_

c) Write the amounts in ascending order.

£21.89   1,289p   8,291p   £82.19   9,128p

_1,289p   £21.89   £82.19   8,291p   9,128p_

d) Write the amounts in descending order.

£5.05   550p   5,500p   £50.50   £55.05

_£55.05   5,500p   £50.50   550p   £5.05_

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6 Huan has three different silver coins in his hand.

What amounts could he have?

Write them in ascending order.

_35p   65p   75p   80p_

7 Teddy has £6.55 and Annie has 673p.

Dexter has more money than Teddy, but less than Annie.

"I only have one copper coin." — Dexter

a) How much money could Dexter have?

b) What different amounts can you find?

e.g. £6.71

8 What could the missing amount of money be?

e.g. 369p < £ [1] [3] · [9] [6] < £16.63

Use the digit cards to complete the inequality.

[1] [3] [6] [9] [0]

Use each digit card once only.

You do not need to use every card.

Compare answers with a partner. How many different answers can you find?