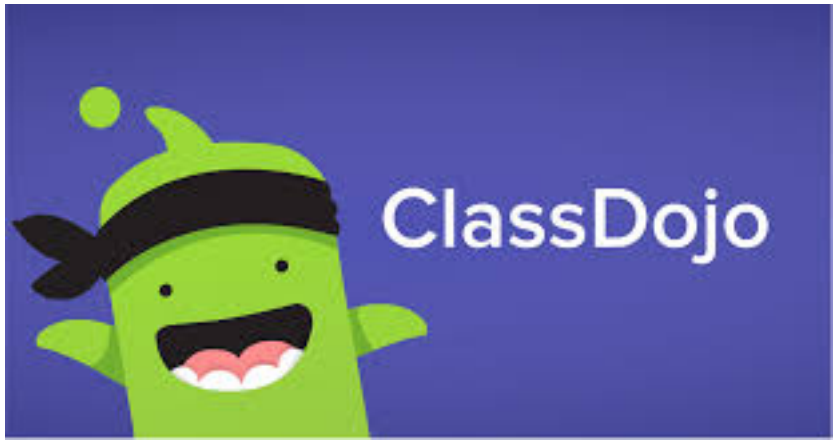
Year 3
Maths Lesson

15.1.21

Home Learning Powerpoint – If you have any problems, just send us a Dojo message.

On this maths powerpoint:

- 1 warm up activity
- 1 maths lesson



Remember – you can get Dojos for posting pictures of your work on Class Dojo!

Warm Up Activity

Practise multiplying by 10 and 100.

Easier

1. __ x 10 = 30
2. __ x 10 = 40
3. __ x 10 = 20
4. __ x 10 = 50
5. __ x 10 = 60
6. __ x 100 = 800
7. __ x 100 = 300
8. __ x 100 = 900
9. __ x 100 = 100
10. __ x 100 = 200

Harder

1. __ x 10 = 120
2. __ x 10 = 240
3. 10 x __ = 300
4. 10 x __ = 360
5. __ x 10 = 600
6. 100 x __ = 100
7. __ x 100 = 400
8. 100 x __ = 500
9. __ x 100 = 600
10. 100 x __ = 800

Answers on the next page – no peeking!

Warm Up Activity

Answers!

Easier

1. 3 x 10 = 30
2. 4 x 10 = 40
3. 2 x 10 = 20
4. 5 x 10 = 50
5. 6 x 10 = 60
6. 8 x 100 = 800
7. 3 x 100 = 300
8. 9 x 100 = 900
9. 1 x 100 = 100
10. 2 x 100 = 200

Harder

1. 12 x 10 = 120
2. 24 x 10 = 240
3. 10 x 30 = 300
4. 10 x 36 = 360
5. 60 x 10 = 600
6. 100 x 1 = 100
7. 4 x 100 = 400
8. 100 x 5 = 500
9. 6 x 100 = 600
10. 100 x 8 = 800

Now mark your work.

How did you do?

Maths Lesson

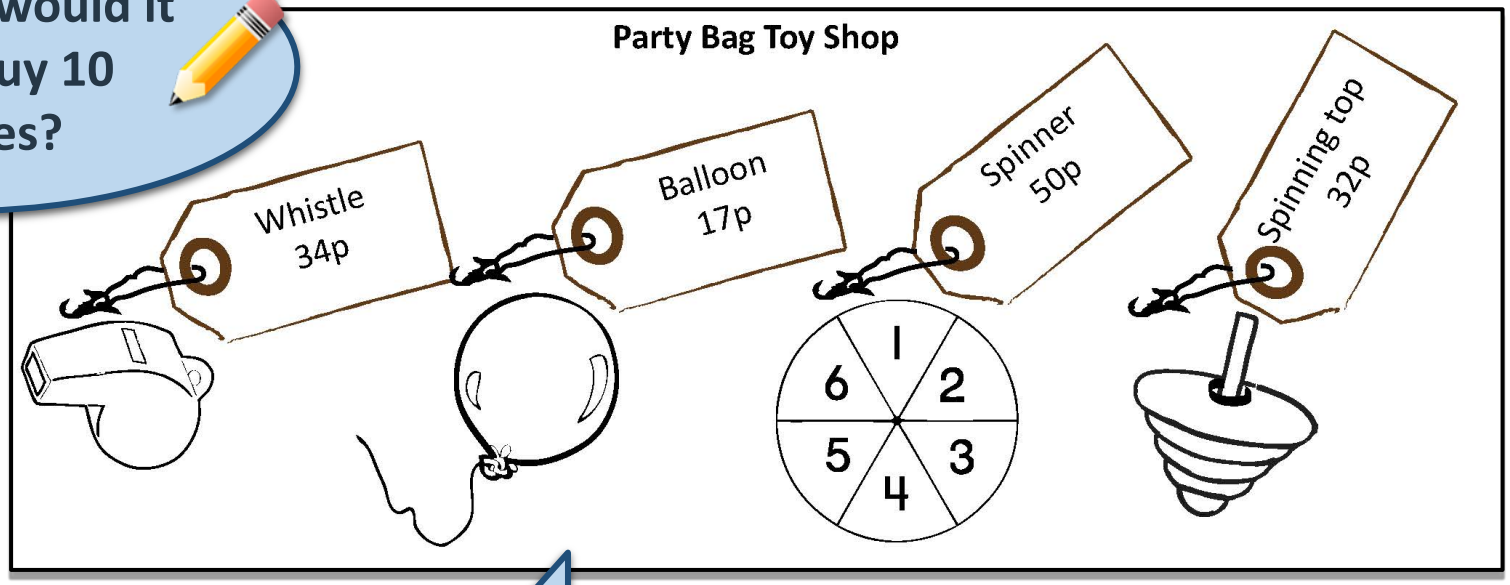
Write out your objective and date in your exercise book.

15.1.21

Objective: Can I multiply and divide by 10 and 100 using money?

Objective: : Multiply and divide by 10 and 100 using money.

How much would it cost to buy 10 whistles?



Draw a grid like this on paper or your whiteboard.

£10	£1	.	10p	1p
		.	3	4

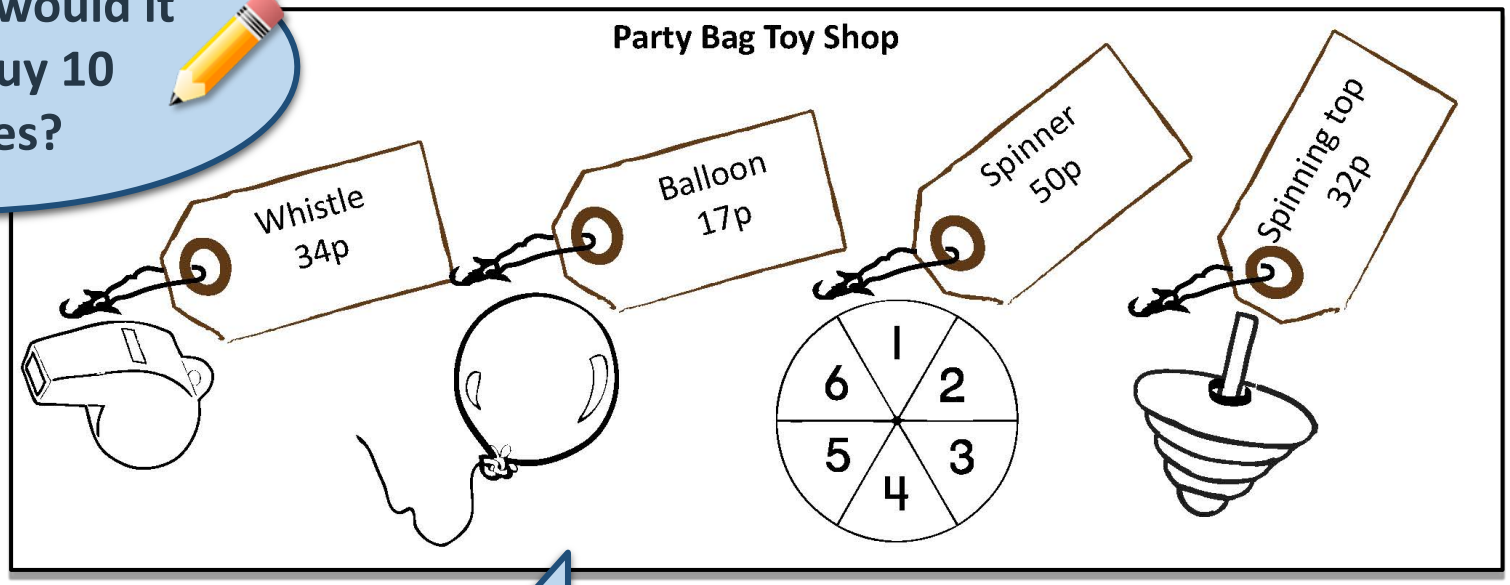
Answer on the next page…

We can use this money place value grid to help.

The digits move **one place** to the left when we **multiply by 10.**

Objective: : Multiply and divide by 10 and 100 using money.

How much would it cost to buy 10 whistles?



Draw a grid like this on paper or your whiteboard.

Answer:

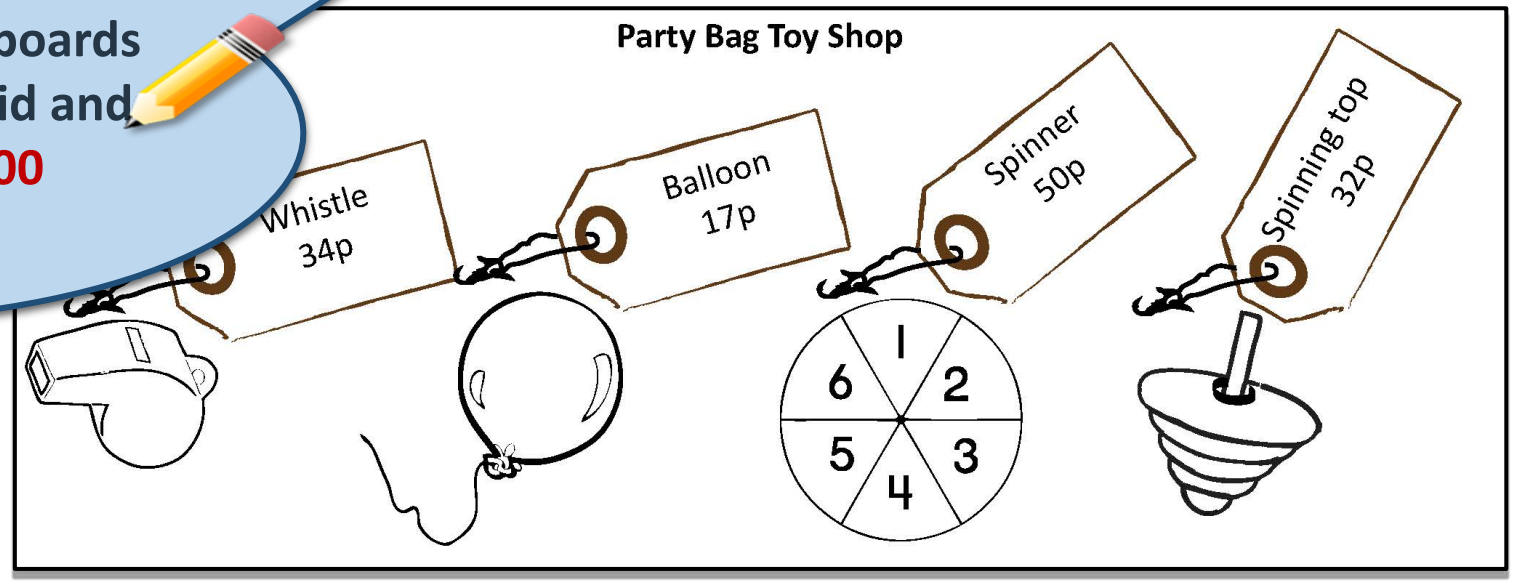
£10	£1	.	10p	1p
	3	.	4	0

We can use this money place value grid to help.

The digits move **one place** to the left when we **multiply by 10.**

Objective: : Multiply and divide by 10 and 100 using money.

On your paper/whiteboards draw a place value grid and find the cost of **100** balloons.



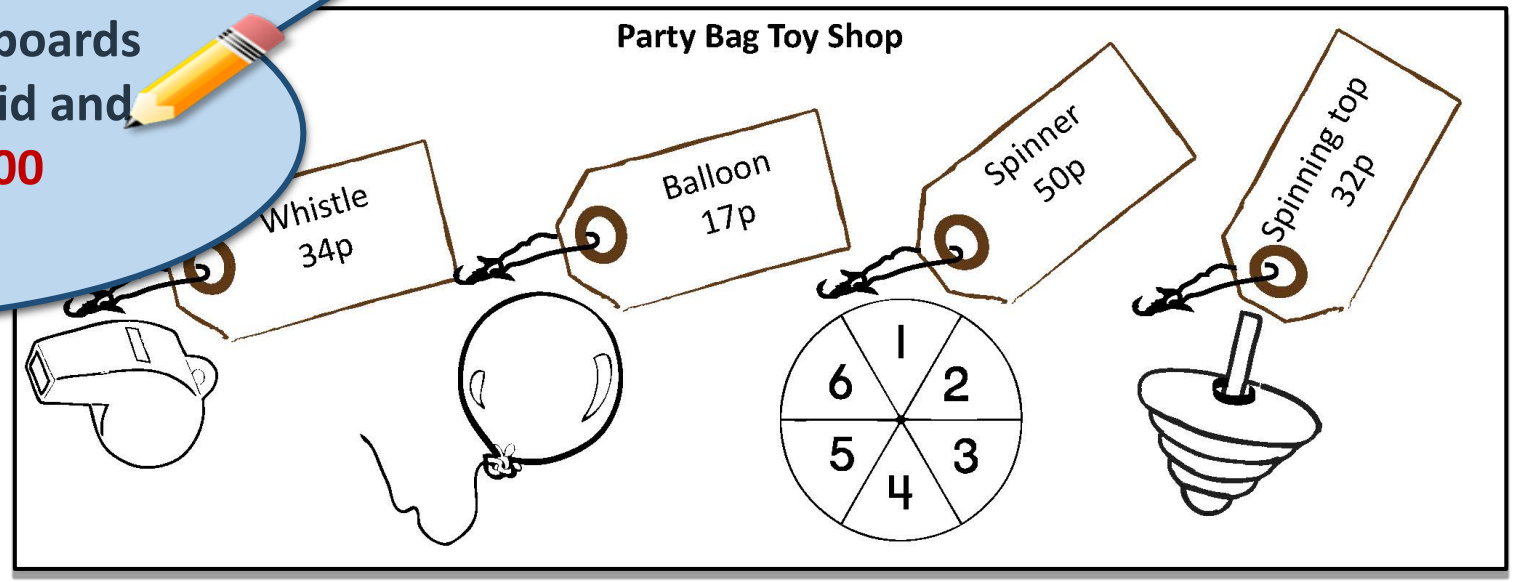
£10	£1	.	10p	1p
		.	1	7

Digits move **2 places** to the left when we **multiply by 100!**

Answer on the next page…

Objective: : Multiply and divide by 10 and 100 using money.

On your paper/whiteboards draw a place value grid and find the cost of 100 balloons.



Answer:

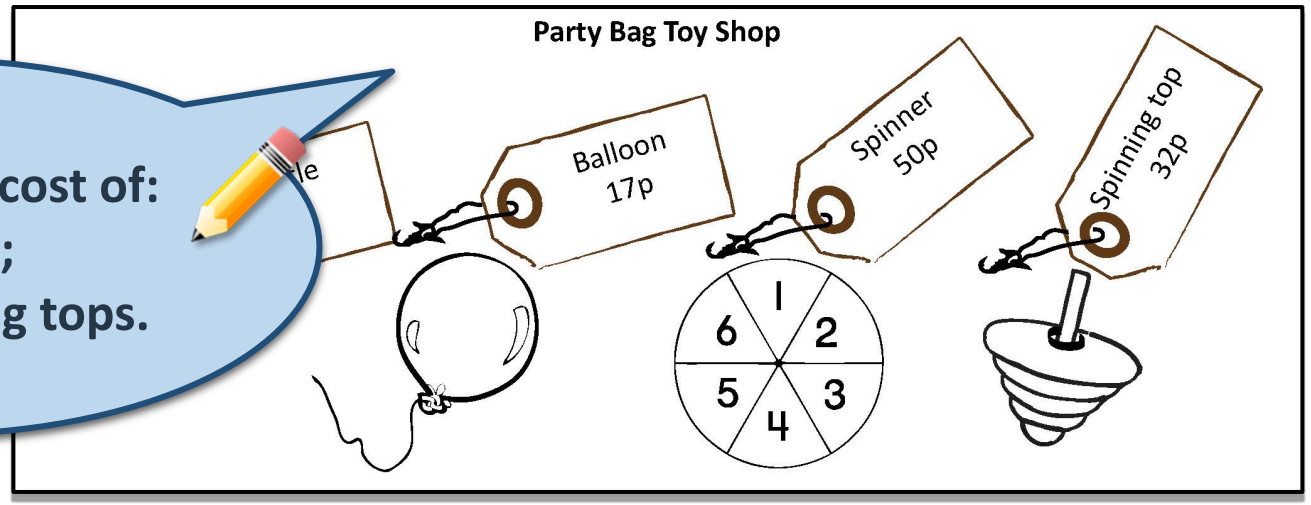
£10	£1	.	10p	1p
1	7	.	0	0

Digits move 2 places to the left when we multiply by 100!

Objective: : Multiply and divide by 10 and 100 using money.

Now find the cost of:

- 10 Spinners;
- 100 Spinning tops.



Answers on the next page…

£10	£1	.	10p	1p
		.	5	0

50p × 10 = ?

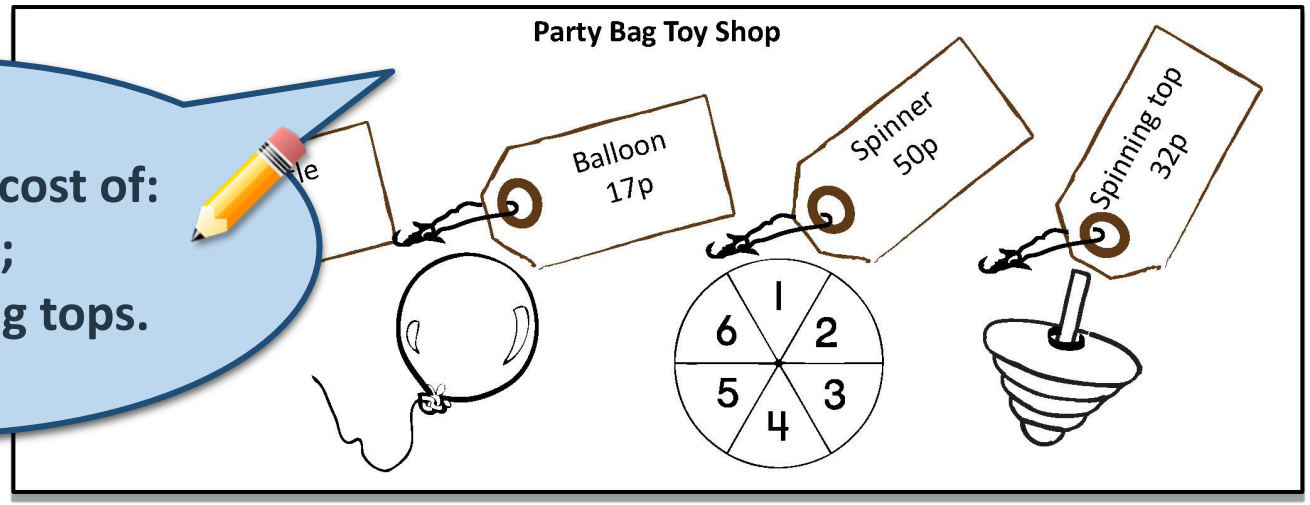
£10	£1	.	10p	1p
		.	3	2

32p × 100 = ?

Objective: : Multiply and divide by 10 and 100 using money.

Now find the cost of:

- 10 Spinners;
- 100 Spinning tops.



Answers:

£10	£1	.	10p	1p
	5	.	0	0

50p × 10 = ?

£10	£1	.	10p	1p
3	2	.	0	0

32p × 100 = ?

Objective: : Multiply and divide by 10 and 100 using money.

I bought 10 of these pencils for £2.70 in total. How much were they each?

What happens to the digits this time?

I bought 10 coloured pencils for £3.40 in total. How much were they each?

Objective: : Multiply and divide by 10 and 100 using money.

I bought **10** of these pencils for **£2.70** in total. How much were they each?

What happens to the digits this time?

I bought **10** coloured pencils for **£3.40** in total. How much were they each?

Answers:

You need to divide by 10 to answer these questions.

£2.70 ÷ 10 = 27p

£3.40 ÷ 10 = 34p

Task 1.

Multiplying and dividing money by 10 and 100

Sheet 1

Easier →

1. How much would it cost to buy 10 of the following? Show your calculations.

Pencils:	35p each
Balloons:	28p each
Envelopes:	16p each
Rubbers:	50p each
Notepads:	£1 each
Soft toy:	99p each
Mugs:	87p each

2. What would it cost if you bought 100 of each? Show your calculations.

Harder →

3. How much does **one** of each of the following cost? Show your calculations.

Balloons:	£5.40 (pack of 10)
Notebooks:	£12.50 (pack of 10)
Key rings:	£16.90 (pack of 10)
Pencils:	£22.00 (pack of 100)
Rubbers:	£15.00 (pack of 100)
Rubber bands:	£6.00 (pack of 100)

← Divide these by 10 to work out the answer.

Challenge

Challenge

Now create some of your own money questions for a friend to solve. Make sure you know what the answer is before giving them your questions! (Or your Mum or Dad!)

Task 2.

Answers on the next page.
No peeking!

Problem solving and reasoning questions

Write these numbers in figures:

(i) Two hundred and five.

(ii) Six hundred and sixty.

(iii) Nine hundred and ninety-one.

(iv) Three hundred and three.

Write these amounts in figures:

(i) Four pounds and thirty pence

(ii) Six pounds and seven pence.

(iii) Ten pounds and eleven pence.

Write the missing numbers:

£3.40 x 10 = ☐

☐ ÷ 10 = £5.50

100 x 9p = ☐

£7 ÷ ☐ = 7p

£0.67 x 10 = ☐

Answers!

How did you do?

Problem solving and reasoning questions answers

Write these numbers in figures:

(i) Two hundred and five. 205

(ii) Six hundred and sixty. 660

(iii) Nine hundred and ninety-one. 991

(iv) Three hundred and three. 303

If children are writing the numbers literally, i.e. 2005, 60060 etc. then they need more practice making the numbers with place value cards - placing each one on top of each other to make the correct number.

Write these amounts in figures:

(i) Four pounds and thirty pence. £4.30

(ii) Six pounds and seven pence. £6.07

(iii) Ten pounds and eleven pence. £10.11

Write the missing numbers:

£3.40 x 10 = £34.00

£55 ÷ 10 = £5.50

100 x 9p = £9.00

£7 ÷ 100 = 7p

£0.67 x 10 = £6.70

If children are making errors with these, check on a money place value grid.

How did you do?

Don’t forget to post your work on Class Dojo!