# Year 3 Maths - 11.05.20 - LO: Convert pounds and pence

This week we are switching to the new White Rose Scheme designed specifically for school closure.  It is linked to the BBC bitesize and recaps work we have already done ready for back to school.

**You can watch the Tutorial White Rose video (available on the link below)** or the BBC lesson which is on the IPlayer**.**  If you choose to, you will need to watch the lesson from **last Monday – week3 lesson1**.  They have follow up tasks on the Bitesize website too if you want.

https://whiterosemaths.com/homelearning/year-3/


Please complete the worksheet in your book – You may find you have covered some of the questions before, however, revision and further practise will help you remember the skills in the future.

# Day 1 Starter:

1) How much money is there altogether?

2) Calculate $96 \div 3$

3) Use $<$ , $>$ or $=$ to compare.

$8 \times 3$ ◯ $4 \times 6$

4) What is 10 more than 472?

# Flashback 4

Year 3 | Week 4 | Day 1

1) How much money is there altogether?

67 p

2) Calculate 96 ÷ 3 32

3) Use < , > or = to compare.

8 × 3 (=) 4 × 6

4) What is 10 more than 472? 482

# Convert pounds and pence

**1** **a)** Circle £1

**b)** Circle £1

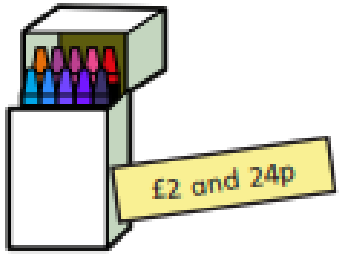
**c)** Circle £1

**d)** Circle £10

**2** How many 1p coins do you need to make £1? ☐

**3** Write the price of each item in pence.


☐p




☐p


☐p

**4** Write each amount in pounds and pence.

**a)** 274p = £☐ and ☐p

374p = £☐ and ☐p

474p = £☐ and ☐p

**b)** 592p = £☐ and ☐p

591p = £☐ and ☐p

590p = £☐ and ☐p

Remember, there are 100p in £1

EXAMPLE:
135p = £1.35
So
£1.35 = 135p

c) 111p = £ ☐ and ☐ p

d) 405p = £ ☐ and ☐ p

**5** Annie has some coins.

a) How much money does Annie have? £ ☐ and ☐ p

b) What is 10p more? £ ☐ and ☐ p

What is 10p less? £ ☐ and ☐ p

c) What is 100p more? £ ☐ and ☐ p

What is 100p less? £ ☐ and ☐ p

**6** What amount is represented in each box?

£ ☐ and ☐ p

£ ☐ and ☐ p

£ ☐ and ☐ p

**7** Eva empties out her money box.

How much money was in her money box? £ ☐ and ☐ p

How did you count the coins? Compare with a partner.

Remember, there are 100p in £1

**8** a) What is the fewest number of coins you can use to represent 315p?

b) Use 6 coins to make an amount that is more than £3, but less than £4. Draw your answer.

Compare answers with a partner.

# Answers

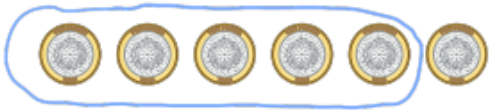
## Convert pounds and pence

**1** a) Circle £1

b) Circle £1

c) Circle £1

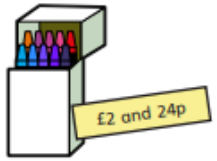
d) Circle £10



**2** How many 1p coins do you need to make £1? 100

**3** Write the price of each item in pence.


124p




224p


645p

**4** Write each amount in pounds and pence.

a) 274p = £2 and 74p
374p = £3 and 74p
474p = £4 and 74p

b) 592p = £5 and 92p
591p = £5 and 91p
590p = £5 and 90p

c) 111p = £1 and 11p

d) 405p = £4 and 5p

**5** Annie has some coins.

a) How much money does Annie have? £3 and 6p

b) What is 10p more? £3 and 16p

What is 10p less? £2 and 96p

c) What is 100p more? £4 and 6p

What is 100p less? £2 and 6p

**6** What amount is represented in each box?

£5 and 5p £4 and 5p £5 and 50p

**7** Eva empties out her money box.

How much money was in her money box? £15 and 67p

How did you count the coins? Compare with a partner.

**8** a) What is the fewest number of coins you can use to represent 315p?

4 coins: £2, £1, 10p, 5p

b) Use 6 coins to make an amount that is more than £3, but less than £4. Draw your answer.

E.g.


Compare answers with a partner.

# Year 3 Maths - 12.05.20

## LO: To add money

**You can watch the Tutorial White Rose video (available on the link below)** or the BBC lesson which is on the IPlayer. If you choose to, you will need to watch the lesson from **last Tuesday – week3 lesson2**. They have follow up tasks on the Bitesize website too if you want.

https://whiterosemaths.com/homelearning/year-3/

We are working 1 week behind so please select **w/c 04/05** – Tuesday

Please complete the worksheet in your book.

# Day 2 Starter:

1) How much money is there altogether?


2) Divide 52 by 4

3) Multiply 22 by 4

4) Find the total of 572 and 196

# Flashback 4

Year 3 | Week 4 | Day 2

1) How much money is there altogether?

£6 and 11 p

2) Divide 52 by 4 13

3) Multiply 22 by 4 88

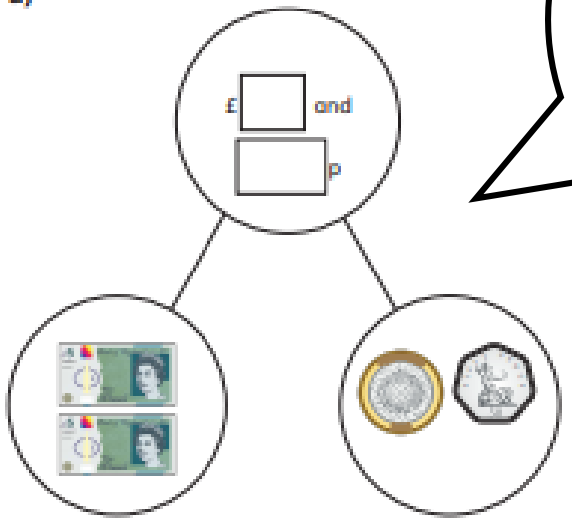
4) Find the total of 572 and 196 768

# Add money

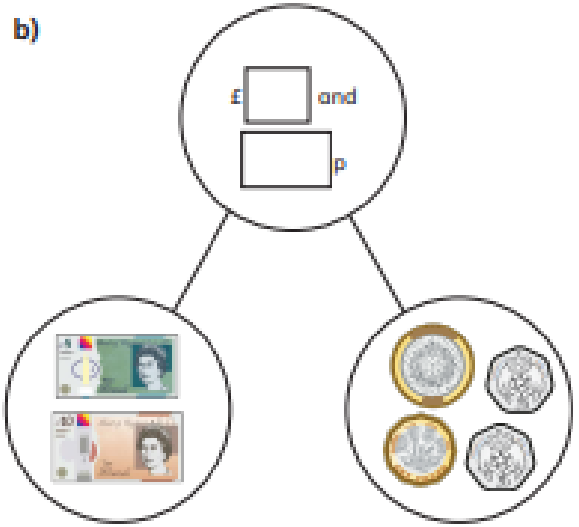
Remember, in the part-whole model you add both of the parts together to make the whole.

**1** Complete the part-whole models.

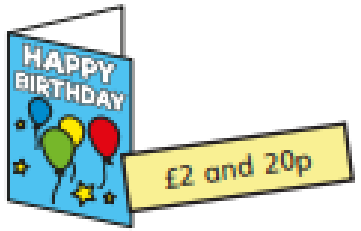
a)

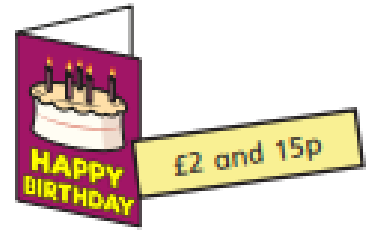



b)




**2** Dora buys two birthday cards.




Complete the sentences to show how much money Dora spends.

£ ☐ + £ ☐ = £ ☐

☐ p + ☐ p = ☐ p

Dora spends £ ☐ and ☐ p.

First add the pounds then the pence. Once you have both of these, you can find the total by adding them together.

**3** Complete the number sentences.

a) £3 and 12p + £5 and 12p = £ ☐ and ☐ p

b) £3 and 30p + £5 and 30p = £ ☐ and ☐ p

c) £3 and 50p + £5 and 50p = £ ☐ and ☐ p

d) £4 and 50p + £5 and 50p = £ ☐ and ☐ p

What do you notice?

**4** Brett has £6 and 55p.

Aisha has £2 and 55p.

How much money do they have altogether?

Remember, add the pounds together then the pence together. Once you have these amounts you can find the total.

£ ☐ and ☐ p

**5** Annie and Alex are having pizza for lunch.

| | |
|---|---|
| Tomato pizza | £5 and 40p |
| Vegetable pizza | £7 and 75p |
| Potato wedges | £1 and 79p |
| Cheese bites | £2 and 83p |

**a)** Annie orders a tomato pizza and cheese bites.

How much does it cost?

£ ☐ and ☐ p

**b)** Alex has £10

She wants to buy potato wedges and a vegetable pizza.

Does she have enough money? _____

Explain your answer.

**6** Mo buys a cap for £6 and 50p.

He also buys a key ring.

He spends £10 in total.

How much does the key ring cost?

£ ☐ and ☐ p

**7** Complete the bar models.

**a)**

| | |
|---|---|
| £2 and 99p | £3 and 40p |

**b)**

| | |
|---|---|
| £1 and 99p | £3 and 99p |

In a bar model, you add all the parts in the bottom bar to find the total (the top bar).

**8** Eva has £6 to spend.


What can Eva buy?

_____

_____

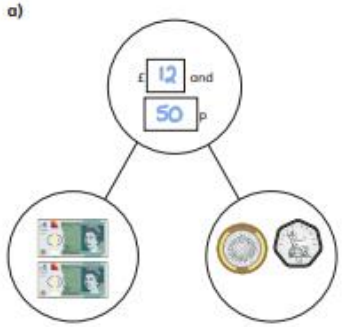
Compare answers with a partner.

# Answers

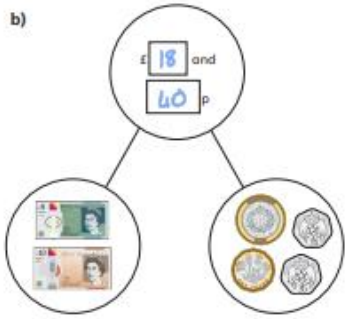
## Add money

1 Complete the part-whole models.

a)




b)




2 Dora buys two birthday cards.



Complete the sentences to show how much money Dora spends.

£ 2 + £ 2 = £ 4

20 p + 15 p = 35 p

Dora spends £ 4 and 35 p.

3 Complete the number sentences.

a) £3 and 12p + £5 and 12p = £ 8 and 24 p

b) £3 and 30p + £5 and 30p = £ 8 and 60 p

c) £3 and 50p + £5 and 50p = £ 9 and 0 p

d) £4 and 50p + £5 and 50p = £ 10 and 0 p

What do you notice?

4 Brett has £6 and 55p.

Aisha has £2 and 55p.

How much money do they have altogether?

£ 9 and 10 p

5 Annie and Alex are having pizza for lunch.

| | |
|---|---|
| Tomato pizza | £5 and 40p |
| Vegetable pizza | £7 and 75p |
| Potato wedges | £1 and 79p |
| Cheese bites | £2 and 83p |

a) Annie orders a tomato pizza and cheese bites.
How much does it cost?

£ 8 and 23 p

b) Alex has £10

She wants to buy potato wedges and a vegetable pizza.

Does she have enough money? Yes

Explain your answer.

6 Mo buys a cap for £6 and 50p.

He also buys a key ring.

He spends £10 in total.

How much does the key ring cost?

£ 3 and 50 p

7 Complete the bar models.

a)

| £6 and 39p | |
|---|---|
| £2 and 99p | £3 and 40p |

b)

| £5 and 98p | |
|---|---|
| £1 and 99p | £3 and 99p |

8 Eva has £6 to spend.


What can Eva buy?

Various answers.

Compare answers with a partner.

# Year 3 Maths - 13.05.20

## LO: To subtract money

**You can watch the Tutorial White Rose video (available on the link below)** or the BBC lesson which is on the IPlayer. If you choose to, you will need to watch the lesson from last **Wednesday – week3 lesson3**. They have follow up tasks on the Bitesize website too if you want.

https://whiterosemaths.com/homelearning/year-3/

We are working 1 week behind so please select **w/c 04/05** – Wednesday

Please complete the worksheet in your book.

# Day 3 Starter:

1) Write 342 p in pounds and pence.

2) Work out 81 ÷ 3

3) Multiply 23 by 4

4) Find the difference between 572 and 196

# Flashback 4

Year 3 | Week 4 | Day 3

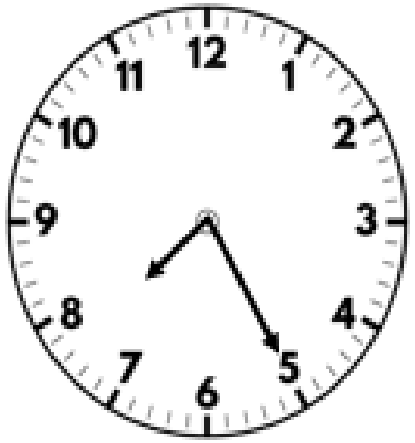
1) Write 342 p in pounds and pence.

£3 and 42 p

2) Work out 81 ÷ 3 27

3) Multiply 23 by 4 92

4) Find the difference between 572 and 196 376

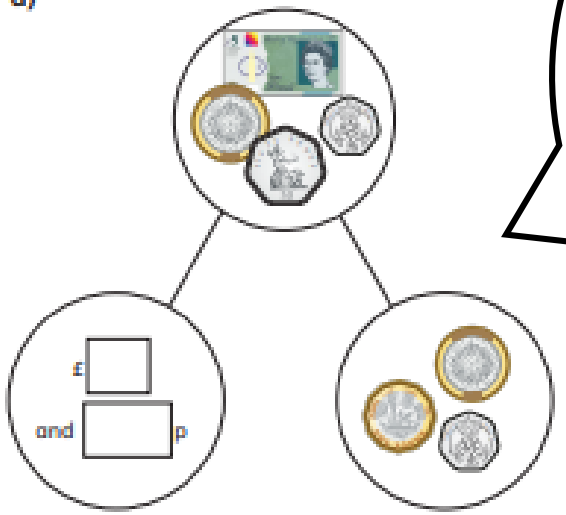


# Subtract money

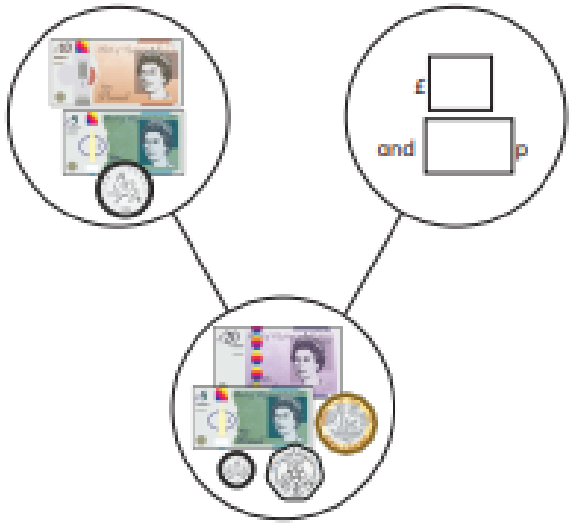
Remember, in the part-whole model. If you have a part missing, you take the other away from the whole to find the missing part.

**1** Complete the part-whole models.

a)




b)




**2** Tommy has £5 and 75p in his pocket.

He puts £2 and 50p in his money box.

How much is left in his pocket?

Remember, you're subtracting today.

TOP TIP: You should be able to use partitioning to solve most of the questions in this lesson.

£ ☐ and ☐ p

**3** Whitney has £4 and 80p.

She buys this pair of socks.


How much money does Whitney have left?

£ ☐ and ☐ p

**4** Complete the statements.

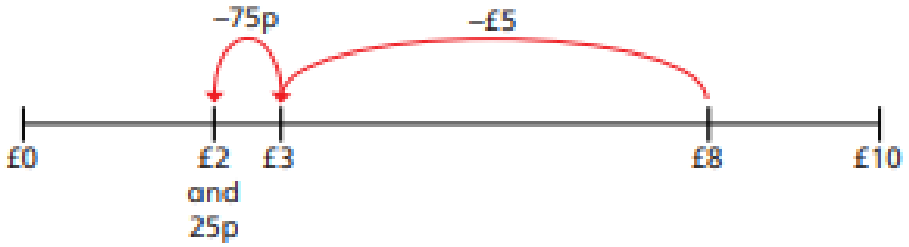
**a)** £8 and 65p – £5 and 25p = £ ☐ and ☐ p

**b)** £8 and 65p – £5 and 65p = £ ☐ and ☐ p

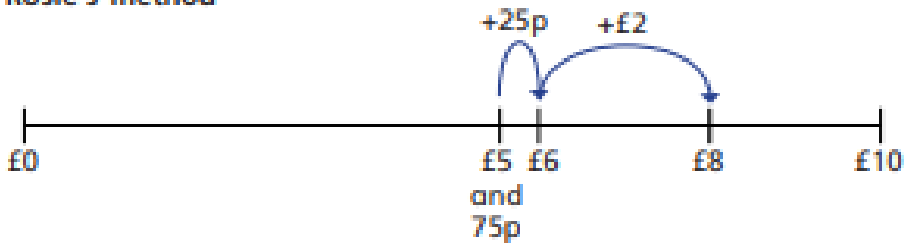
**c)** £8 and 65p – £8 and 30p = £ ☐ and ☐ p

**5** Amir and Rosie use a number line to subtract £5 and 75p from £8

**Amir's method**




**Rosie's method**




Amir and Rosie both get £2 and 25p as their answer.

**a)** Explain each of these methods to a partner.

**b)** Whose method do you prefer? _____

Explain why.

**6** Complete the number sentences.

**a)** £3 and 50p – £1 and 20p = £ ☐ and ☐ p

**b)** £3 – £1 and 50p = £ ☐ and ☐ p

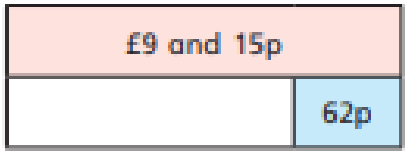
**c)** £6 and 15p – £2 and 85p = £ ☐ and ☐ p

**d)** £8 and 7p – £3 and 54p = £ ☐ and ☐ p

**7** Complete the bar models.

**a)**


**b)**

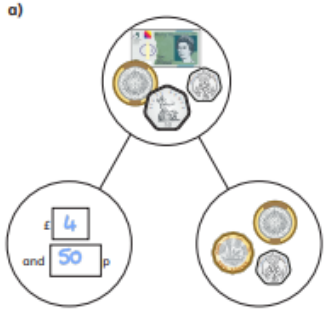


# Answers

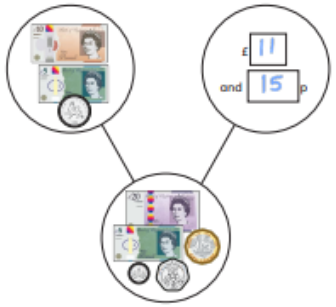
## Subtract money

**1** Complete the part-whole models.

**a)**




**b)**




**2** Tommy has £5 and 75p in his pocket.

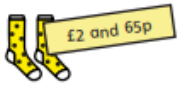
He puts £2 and 50p in his money box.

How much is left in his pocket?

£ 3 and 25 p

**3** Whitney has £4 and 80p.

She buys this pair of socks.




How much money does Whitney have left?

£ 2 and 15 p

**4** Complete the statements.

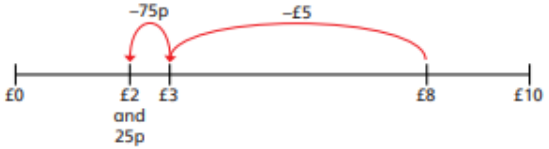
**a)** £8 and 65p – £5 and 25p = £ 3 and 40 p

**b)** £8 and 65p – £5 and 65p = £ 3 and 0 p

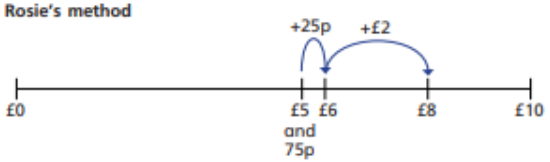
**c)** £8 and 65p – £8 and 30p = £ 0 and 35 p

**5** Amir and Rosie use a number line to subtract £5 and 75p from £8

**Amir's method**




**Rosie's method**




Amir and Rosie both get £2 and 25p as their answer.

**a)** Explain each of these methods to a partner.

**b)** Whose method do you prefer? various answers

Explain why.

**6** Complete the number sentences.

**a)** £3 and 50p – £1 and 20p = £ 2 and 30 p

**b)** £3 – £1 and 50p = £ 1 and 50 p

**c)** £6 and 15p – £2 and 85p = £ 3 and 30 p

**d)** £8 and 7p – £3 and 54p = £ 4 and 53 p

**7** Complete the bar models.

**a)**

| £8 and 99p | |
|---|---|
| £8 and 96p | 3p |

**b)**

| £9 and 15p | |
|---|---|
| £8 and 53p | 62p |

# Year 3 Maths - 14.05.20

## LO: To multiply and divide by 3

**You can watch the Tutorial White Rose video (available on the link below)** or the BBC lesson which is on the IPlayer. If you choose to, you will need to watch the lesson from last **Thursday – week3 lesson4**. They have follow up tasks on the Bitesize website too if you want.

https://whiterosemaths.com/homelearning/year-3/

We are working 1 week behind so please select **w/c 04/05** – Thursday

Please complete the worksheet in your book.

# Day 4 Starter:

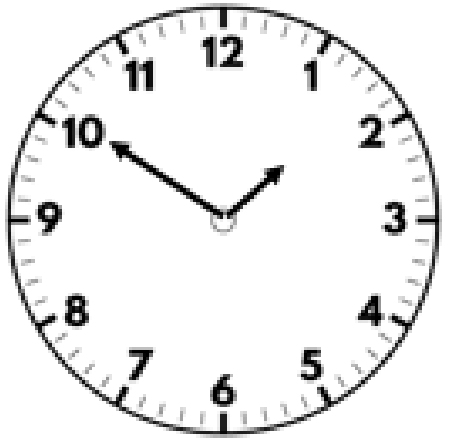
1) Calculate £5 and 20 p + £1 and 35 p

2) There are 3 times as many girls as boys in Chess club.
There are 7 boys in Chess club.
How many girls are there?

3) If $3 \times 8 = 24$, what is $3 \times 80$?

4) Find the sum of 342 and 575

# Flashback 4




1) Calculate £5 and 20 p + £1 and 35 p

£6 and 55 p

2) There are 3 times as many girls as boys in Chess club.

There are 7 boys in Chess club.

How many girls are there?

21 girls

3) If $3 \times 8 = 24$, what is $3 \times 80$?

240

4) Find the sum of 342 and 575

917

# The 3 times-table

**1** Complete the multiplications.

a)

□ × □ = □

b)

□ × □ = □

Look carefully, how many lots of 3 are there?

**2** Dani makes an array using counters.

Write two multiplication and two division facts represented by the array.

□ × □ = □

□ × □ = □

□ ÷ □ = □

□ ÷ □ = □

**3** Complete the number sentences.

a) 6 × 3 = □

b) 3 × □ = 27

c) □ ÷ 11 = 3

d) □ ÷ 3 = 5

e) 12 × 3 = □

f) □ × 3 = 0

**4** Complete the number sentences.

a) 2 × 3 = □

4 × 3 = □

8 × 3 = □

b) 6 = 3 × □

12 = 3 × □

18 = 3 × □

What patterns do you notice?

**5** Write <, > or = to compare the statements.

a) 33 ÷ 11 ◯ 3

b) 27 ◯ 30 ÷ 3

c) 9 ÷ 3 ◯ 3 x 6

d) 6 x 3 ◯ 6 ÷ 3

e) 3 x 6 ◯ 18 ÷ 3

f) 0 x 3 ◯ 3 ÷ 3

**6** Colour all the numbers in the 3 times-table.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |

What two patterns do you notice?

**7** Work out the missing values in each bar model.

a)

| | | | | | |
|---|---|---|---|---|---|
| | | | | | |
| 3 | 3 | 3 | 3 | 3 | 3 |

b)

| | | |
|---|---|---|
| 36 | | |
| | | |

**8** Mo has 7 packets of 3 stickers.

Eva has 3 packets of 9 stickers.

Who has the greatest number of stickers? _____

**9** a) Complete the multiplications.

Are the answers odd or even? Tick your answer.

| | odd | even |
|---|---|---|
| $1 \times 3 = 3$ | ☐ | ☐ |
| $2 \times 3 =$ ☐ | ☐ | ☐ |
| $3 \times 3 =$ ☐ | ☐ | ☐ |
| ☐ $\times 3 = 12$ | ☐ | ☐ |

b) What would the next multiplication be?

☐ $\times 3 =$ ☐

c) What do you notice about the products?

d) Will the product of $11 \times 3$ be odd or even? _____

**10** Use the fact that $12 \times 3 = 36$ to work out the calculations.

$13 \times 3 =$ ☐

$3 \times 15 =$ ☐

$14 \times 3 =$ ☐

$24 \times 3 =$ ☐

How did you work this out?

Did you find the answers in the same way as your partner?

# Answers

## The 3 times-table

**1** Complete the multiplications.

a)

8 × 3 = 24

b)

3 × 4 = 12

**2** Dani makes an array using counters.

Write two multiplication and two division facts represented by the array.

3 × 5 = 15

5 × 3 = 15

15 ÷ 3 = 5

15 ÷ 5 = 3

**3** Complete the number sentences.

a) 6 × 3 = 18

b) 3 × 9 = 27

c) 33 ÷ 11 = 3

d) 15 ÷ 3 = 5

e) 12 × 3 = 36

f) 0 × 3 = 0

**4** Complete the number sentences.

a) 2 × 3 = 6

4 × 3 = 12

8 × 3 = 24

b) 6 = 3 × 2

12 = 3 × 4

18 = 3 × 6

What patterns do you notice?

**5** Write <, > or = to compare the statements.

a) 33 ÷ 11 = 3

b) 27 > 30 ÷ 3

c) 9 ÷ 3 < 3 × 6

d) 6 × 3 > 6 ÷ 3

e) 3 × 6 > 18 ÷ 3

f) 0 × 3 < 3 ÷ 3

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**6** Colour all the numbers in the 3 times-table.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |

What two patterns do you notice?

**7** Work out the missing values in each bar model.

a)

| 18 | | | | | |
|---|---|---|---|---|---|
| 3 | 3 | 3 | 3 | 3 | 3 |

b)

| 36 | | |
|---|---|---|
| 12 | 12 | 12 |

**8** Mo has 7 packets of 3 stickers.

Eva has 3 packets of 9 stickers.

Who has the greatest number of stickers? Eva

**9** a) Complete the multiplications.

Are the answers odd or even? Tick your answer.

| | odd | even |
|---|---|---|
| 1 × 3 = 3 | ✓ | |
| 2 × 3 = 6 | | ✓ |
| 3 × 3 = 9 | ✓ | |
| 4 × 3 = 12 | | ✓ |

b) What would the next multiplication be?

5 × 3 = 15

c) What do you notice about the products?

d) Will the product of 11 × 3 be odd or even? Odd

**10** Use the fact that 12 × 3 = 36 to work out the calculations.

13 × 3 = 39

3 × 15 = 45

14 × 3 = 42

24 × 3 = 72

How did you work this out?

Did you find the answers in the same way as your partner?

# Year 3 Maths - 15.05.20

**LO: To use my maths skills to solve challenges.**

Today there is no White Rose video, below is a link to the BBC. Challenges 1 and 2, are most suited to Year 3 but you are welcome to try Challenges 3 and 4.

https://www.bbc.co.uk/bitesize/articles/zd3q2sg

# Day 5 Starter:

1) Tilly has £4 and 30 p. She spends 50 p.
How much money does Tilly have now?

2) If 3 cars have 12 wheels, how many wheels do 9 cars have?

3) Use $<$ , $>$ or $=$ to compare.

$3 \times 7$ ◯ $8 \times 3$

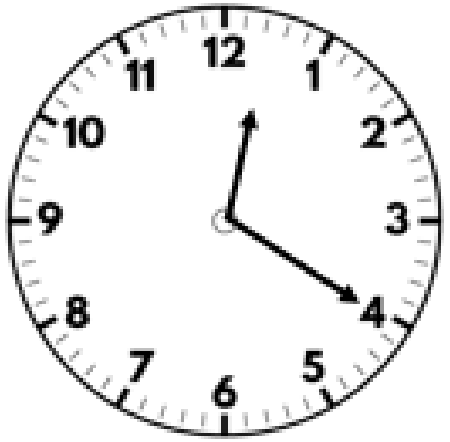
4) What is the value of the digit 4 in 342?

# Flashback 4



1) Tilly has £4 and 30 p. She spends 50 p.
How much money does Tilly have now?

£3 and 80 p




2) If 3 cars have 12 wheels, how many wheels do 9 cars have?

36 wheels

3) Use $<$ , $>$ or $=$ to compare.

$3 \times 7$ (<) $8 \times 3$

4) What is the value of the digit 4 in 342?

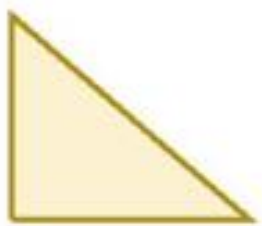
40 or 4 tens

## Challenge 1

This is half of Lee's strawberries.

How many strawberries does Lee have?

This is half of Lee's shape.



What could the whole shape look like?

## Challenge 2

Tim buys a lolly and a chew.


The lolly costs 12p more than the chew.

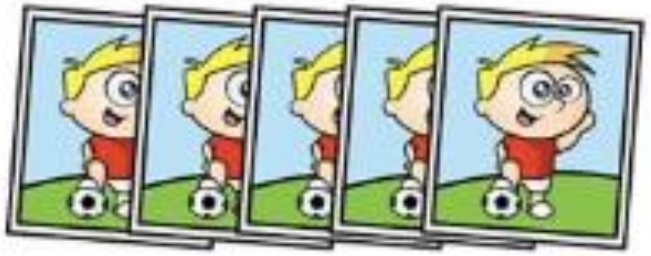
The total cost of the two items is 82p.

How much does the lolly cost?

# Challenge 3

Stickers come in packs of 5.

Max buys 12 packs.



He gives his three friends some stickers.

They each receive the same number.

He has 27 stickers left.

How many stickers did Max give each of his friends?

# Challenge 4

Here are 3 containers.

These questions may have more than one step involved. Think carefully

- The jug can hold **1500 ml** .
- The bucket can hold **2 litres** .
- The barrel can hold **15 litres** .

Anisa wants to fill the barrel with water.

Find 2 ways that Anisa can fill the barrel using the jug and bucket.

# Answers

**Challenge 1** - 8 strawberries

**Challenge 2** - 47p

**Challenge 3** - 11 cards

**Challenge 4** - 2 jugs and 6 buckets, 6 jugs and 3 buckets, or 10 jugs