1. Write one number from each circle to make this calculation correct.

Circle 1: 3, 4, 5

Circle 2: 6, 7, 8

Circle 3: 30, 40, 50

$$\boxed{} \times \boxed{} - \boxed{} = 0$$

1 mark

2. $16 \div 1 =$

$$\boxed{}$$

1 mark

3. The signs are missing from these number sentences.

Write in the missing signs, **+ − × or ÷**

The first has been done for you.

6 (×) 5 = 40 (−) 10

20 ( ) 8 = 4 ( ) 7

21 ( ) 3 = 15 ( ) 8

2 marks

4. Write the missing numbers.

Factors of 20 = {1, ..., ..., ..., ..., 20}

1 mark

5. Here are four number cards.

3   12   7   4

Which two number cards are **factors of 42**?

☐ and ☐

1 mark

6. Write in the missing digit.

$$5\ \square$$
$$\times\ \ \ \ 8$$
$$\overline{4\ 5\ 6}$$

1 mark

7. In the circle write **+, −, ×,** or **÷** to make the calculation correct.

18 ◯ 3 × 5 = 30

1 mark

8. 12 × 5 × 6 =

1 mark

9. 4 pineapples cost £3.40

Calculate the cost of **1** pineapple.

[ ] p

1 mark

10. Calculate **634 × 6**

[ ]

1 mark

11. Write what the **three missing** digits could be.

[ ] [ ] × 3 = 8 [ ]

1 mark

12. Josh thinks of a number.

He adds 4

He multiplies his result by 3

Then he takes away 9

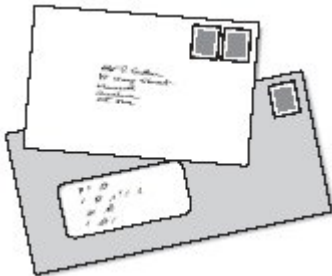His final answer is 90

What number did Josh start with?

1 mark

13. Calculate **453** × **8**

1 mark

14. Two letters have a total weight of **120 grams**

One letter weighs **twice as much** as the other.

Write the weight of the **heavier** letter.

g

1 mark

15. Write all the factors of 30 which are **also** factors of 20

....

2 marks

16. Dev has a bag of 50p coins and Holly has a bag of 20p coins.

50p coins

Dev's bag

20p coins

Holly's bag

Both bags have the same amount of money in.
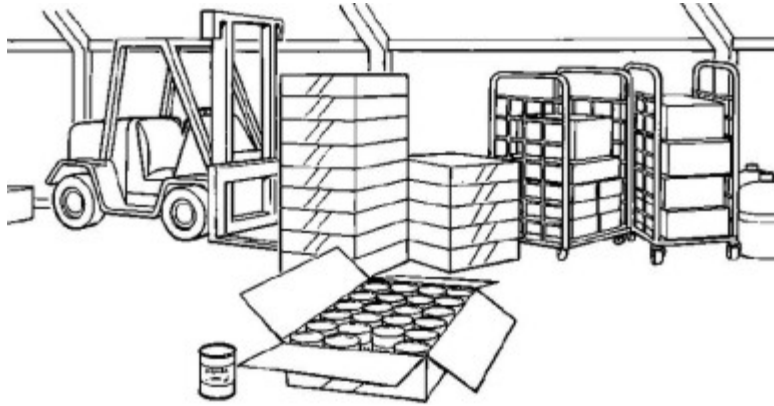
There are **thirty** 50p coins in Dev's bag.

How many 20p coins are there in Holly's bag?

Show your method

| | 20p coins |

2 marks

17.

In a supermarket storeroom there are

   7 boxes of tomato soup

   5 boxes of pea soup

   4 boxes of chicken soup

There are **24 tins** in every **box**.

How many **tins** of soup are there **altogether**?

Show your method

2 marks

Mark schemes

1.

5	×	6	–	30

OR

5	×	8	–	40

[1]

2. 16

[1]

3. (a)

$$20 \; (+) \; 8 \; = \; 4 \; (\times) \; 7$$

1

(b)

$$21 \; (\div) \; 3 \; = \; 15 \; (-) \; 8$$

1

[2]

4. 2, 4, 5, 10

*All correct, in any order for **1 mark**.*

[1]

5. Cards completed as shown:

3	and	7

Accept answers in either order.

[1]

6.

$$\begin{array}{r} 5\boxed{7} \\ \times\,8 \\ \hline 4\,5\,6 \end{array}$$

Accept 7 wherever it is written provided the intention is clear.

[1]

7. 18 ⊝ 3 × 5 = 30

[1]

8. 360

[1]

9. 85

*Accept £0.85p **OR** £0 85p*

***Do not** accept 0.85p **OR** £85p*

[1]

10. 3804

[1]

11.

$$\boxed{2}\boxed{7} \times 3 = \boxed{8}\boxed{1}$$
$$\text{OR } \boxed{2}\boxed{8} \times 3 = \boxed{8}\boxed{4}$$
$$\text{OR } \boxed{2}\boxed{9} \times 3 = \boxed{8}\boxed{7}$$

All boxes must be correct.

[1]

12. 29

[1]

13. 3624

[1]

14. 80

[1]

15. Award **TWO** marks for all four factors, as shown:

1, 2, 5, 10

If the answer is incorrect, award **ONE** mark for:

- three factors correct and none incorrect

OR

- four factors correct and one incorrect.

Accept factors written in any order.

*All four factors and no incorrect numbers must be given for the award of **TWO** marks.*

Up to 2

[2]

16. Award **TWO** marks for the correct answer of 75

If the answer is incorrect, award **ONE** mark for evidence of appropriate method, eg:

- 30 × 50 = 1500
  1500 ÷ 20

OR

- 30 × 50p = £15
  5 20p coins make £1
  5 × 15

OR

- 50p ÷ 20p = 2.5
  30 × 2.5

*Answer need not be obtained for the award of **ONE** mark.*

Up to 2

[2]

17. Award **TWO** marks for the correct answer of 384

If the answer is incorrect, award **ONE** mark for evidence of appropriate method, eg

7 + 5 + 4 = 16

16 × 24

OR

7 × 24

5 × 24

+ 4 × 24

*Answer need not be obtained for the award of **ONE** mark.*

Up to 2

[2]