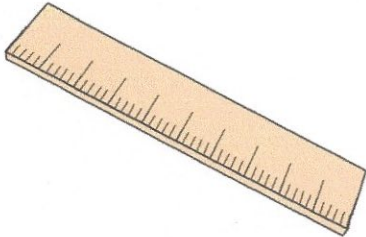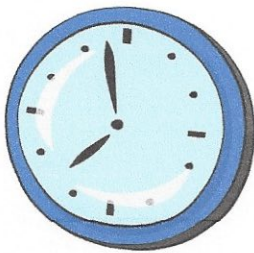Corbettmaths

Factors

Tips
- Read each question carefully
- Attempt every question.
- Check your answers seem right.
- Always show your workings

Recap

Remember
- There are daily questions found at
  www.corbettmaths.com/5-a-day/primary

1. **List the factors of 10**

1×10
2×5

1   2   5   10

2. **List the factors of 18**

1×18
2×9
3×6

1 , 2 , 3 , 6 , 9 , 18

3. **List the factors of 25**

1×25
5×5

1 , 5 , 25

4. **List the factors of 40**

10×4 1×40 2×20 5×8

1 , 2 , 4 , 5 , 8 , 10 , 20 , 40

5. Here is a list of numbers.

3   4   5   6   7   9   13

From the list, write down a factor of 14

$\boxed{7}$

From the list, write down a factor of 26

$\boxed{13}$

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6. Here is a list of numbers.

④   5   ⑥   7   ⑧   10   ⑫   13   14

Circle any number in the list that is a **factor** of 24

7. Write three factors of 40 which are **also** factors of 30

$$40 : 1, 2, 4, 5, 8, 10, 20, 40$$

$$30 : 1, 2, 3, 5, 6, 10, 15, 30$$

1	2	5

or 10

---

8. Write all the factors of 36 which are **also** factors of 27

$$36 : \textcircled{1}, 2, \textcircled{3}, 4, 6, \textcircled{9}, 12, 18, 36$$
$$27 : \textcircled{1}, \textcircled{3}, \textcircled{9}, 27$$

1, 3, 9

9. Write four factors of 48 that are **not** factors of 30

48 : ①, ②, ③, 4, ⑥, 8, 12, 16, 24, 48
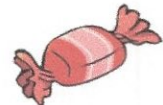
30 : ①, ②, ③, 5, ⑥, 10, 15, 30

| 4 | 8 | 12 | 16 |

or 24
or 48

---

10. Jemima has 32 sweets and is able to share them equally between her friends.

Jemima has more than 5 friends but less than 20 friends.

Write down how many friends Jemima might have.

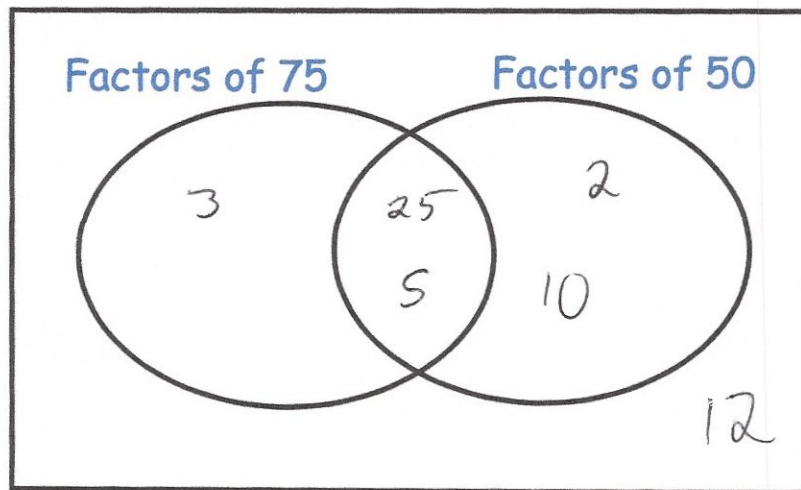32 : 1 , 2 , 4 , 8 , 16 , 32
    x   x   x   x

| 8 |

or 16

11. Write these numbers in the correct places on the diagram

2   3   5   10   12   25

$75:$ ①, 3, ⑤, 15, ㉕, 75
$50:$ ①, 2, ⑤, 10, ㉕, 50

Factors of 75   Factors of 50

3   25
          5   10   2
                              12

---

12. Shannon writes down three different **factors of 36**

She adds her three numbers together.

The answer is greater than 30 but less than 35.

What three numbers could Shannon have written down?

$36:$ 1, 2, 3, 4, 6, 9, 12, 18, 36

$12 + 18 + 2 = 32$
$12 + 18 + 3 = 33$
$12 + 18 + 4 = 34$
$12 + 18 + 1 = 31$

$18 + 9 + 6 = 33$
$18 + 9 + 4 = 31$

| 3 | 12 | 18 |

or   18
or   4
or   1
or   2
or   18

9
12
12
12
9

6
18
18
18
4

13. Write **all** the numbers between 10 and 50 that are **factors** of 90

12

90 :
$$1 \times 90$$
$$2 \times 45$$
$$3 \times 30$$
$$5 \times 18$$
$$6 \times 15$$
$$9 \times 10$$

~~1~~, ~~2~~, ~~3~~, ~~5~~, ~~6~~, ~~9~~, ~~10~~, (15), (18), (30), (45), ~~90~~