

Listing Factors

1

List all the factors of 20.

1 row of 20

2 rows of 10

4 rows of 5

x

= 20

x

= 20

x

= 20

Stop when the pairs meet in the middle.

Factors _____

2

List all the factors of 18.

x

= 18

x

= 18

3

List all the factors of 32.

x

= 32

x

= 32

x

= 32

4

List all the factors of 30.

x

= 30

x

= 30

x

= 30

x

= 30

5

List all the factors of 36.

Factors _____

6

List all the factors of 28.

Factors _____

7

Stella has 24 chairs. She puts them in equal rows. Write down every number of rows she could make.

Answer _____

8

A number has exactly two factors. One of them is 13. What is the number?

Answer _____

Listing Factors *further practice*

9

List all the factors of 48.

Factors _____

10

The factor rainbow shows all the factors of 54. Three of them are missing. Fill them in.

1

2

6

18

54

11

Which of these numbers are factors of 72?

6, 9, 14, 16, 24

Answer _____

12

A rectangle has an area of 30 cm². Its length and width are whole numbers of centimetres. Write down all the possible lengths and widths.

Answer _____

13

A teacher splits 45 pupils into teams of equal size, with no pupils left over. Each team must have between 4 and 10 pupils. How many pupils could be in each team? Give every answer.

Answer _____

14

Find the number between 20 and 30 that has exactly three factors.

Answer _____

15

Kai has 24 red beads and 36 blue beads. He uses all of the beads to make more than one bracelet. The bracelets are all exactly the same. How many bracelets could he make? Give every answer.

Answer _____

16

Priya says a bigger number always has more factors than a smaller number. Is Priya right? Explain, with an example.

Answer _____