

Prime and Composite Numbers

ANSWERS 

1
Sort these numbers into prime and composite.

4 7 9 13 15
17 20 23

Prime	Composite
7, 13, 17, 23	4, 9, 15, 20

2
Circle the prime numbers.

21 29 33 31
27 37 39 41

3
Shade every prime number.

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

4
Write the first ten prime numbers.

2 3 5 7 11
13 17 19 23 29

5
Write a prime number

between 20 and 25 23

between 30 and 35 31

between 40 and 45 41 or 43

6
True or false?

9 is a prime number.

True False

2 is the only even prime number.

True False

1 is a prime number.

True False

29 is a prime number.

True False

7
Which is the odd one out?

3 5 9 11

Odd one out 9

Why? 9 is not prime

$$3 \times 3 = 9$$

8
Write each number as two prime numbers added together.

$$10 = 3 + 7$$

$$16 = 3 + 13$$

$$20 = 3 + 17$$

Prime and Composite Numbers *further practice*

ANSWERS 

9

Sort these numbers into prime and composite.

31 33 37 39 41 49

Prime 31, 37, 41

Composite 33, 39, 49

10

Show that 57 is a composite number by writing it as two numbers multiplied together. Do not use 1.

$$57 \div 3 = 19$$

Answer $57 = 3 \times 19$

11

The houses on a street are numbered from 40 to 50. Which houses have a prime number?

each has exactly two factors

Answer 41, 43, 47

12

A squad has football shirts numbered 1 to 30. The players whose shirt number is a composite number train on Monday. How many players train on Monday?

30 - 10 primes - the number 1

Answer 19

13

Two prime numbers multiply to make 65. What are they?

65 ends in 5, so try 5

Answer 5 and 13

14

Two prime numbers add up to 25. What are they?

25 is odd, so one of them is even

Answer 2 and 23

15

Ella's age is a prime number between 10 and 20. In 2 years' time her age will be a multiple of 5. How old is Ella now?

11, 13, 17, 19, then add 2

Answer 13

16

Ana says that when you add two prime numbers the answer is always even. Is Ana right? Explain.

$2 + 3 = 5$, which is odd

Answer No, $2 + 3 = 5$