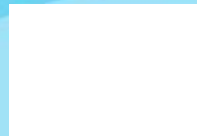


Maths

Addition, Subtraction,
Multiplication and Division

Prime Detectives



Aim

- I can identify prime numbers.

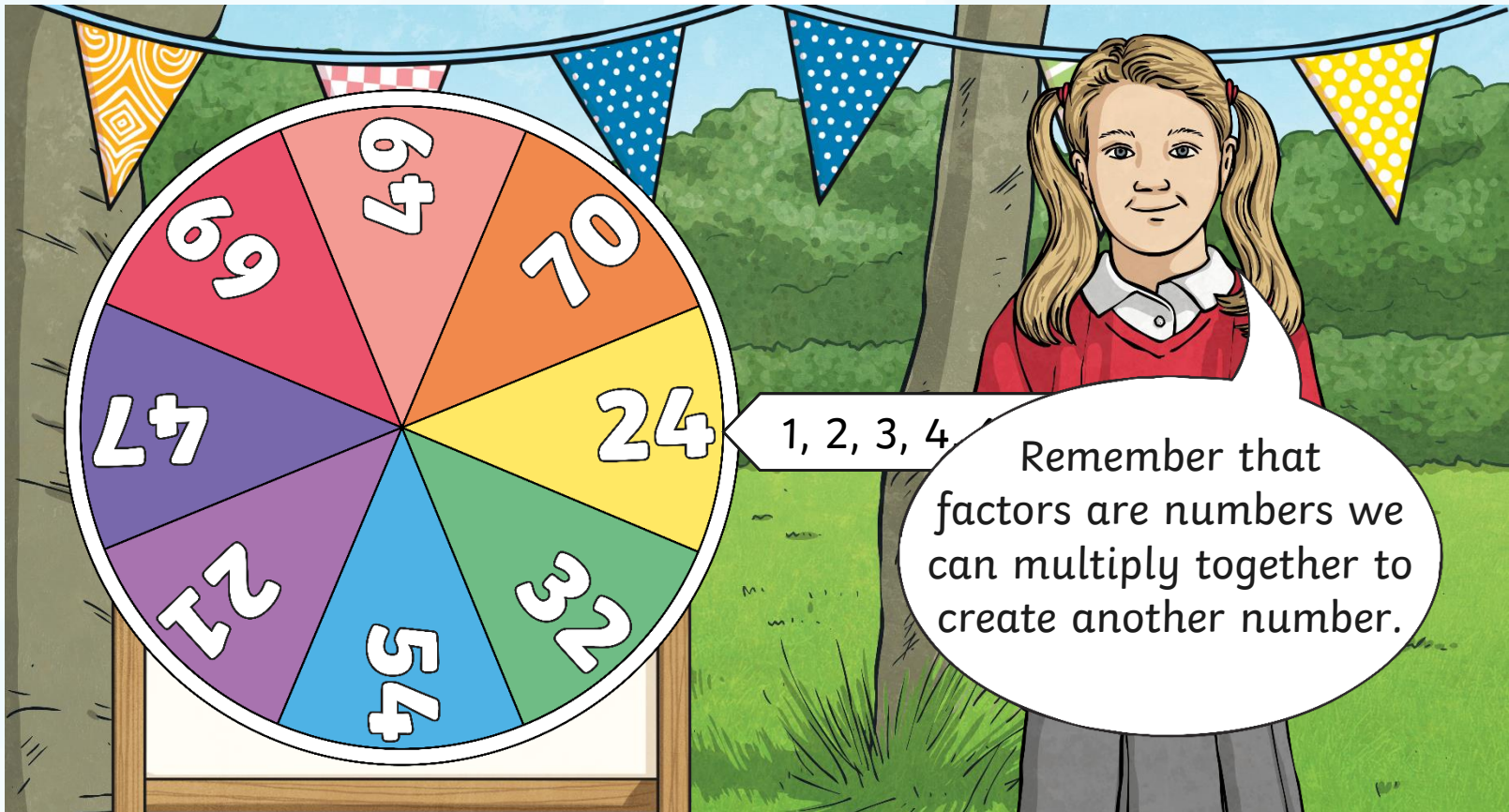
Success Criteria

- I know what 'prime numbers' are.
- I can identify prime numbers.

Factor Finder



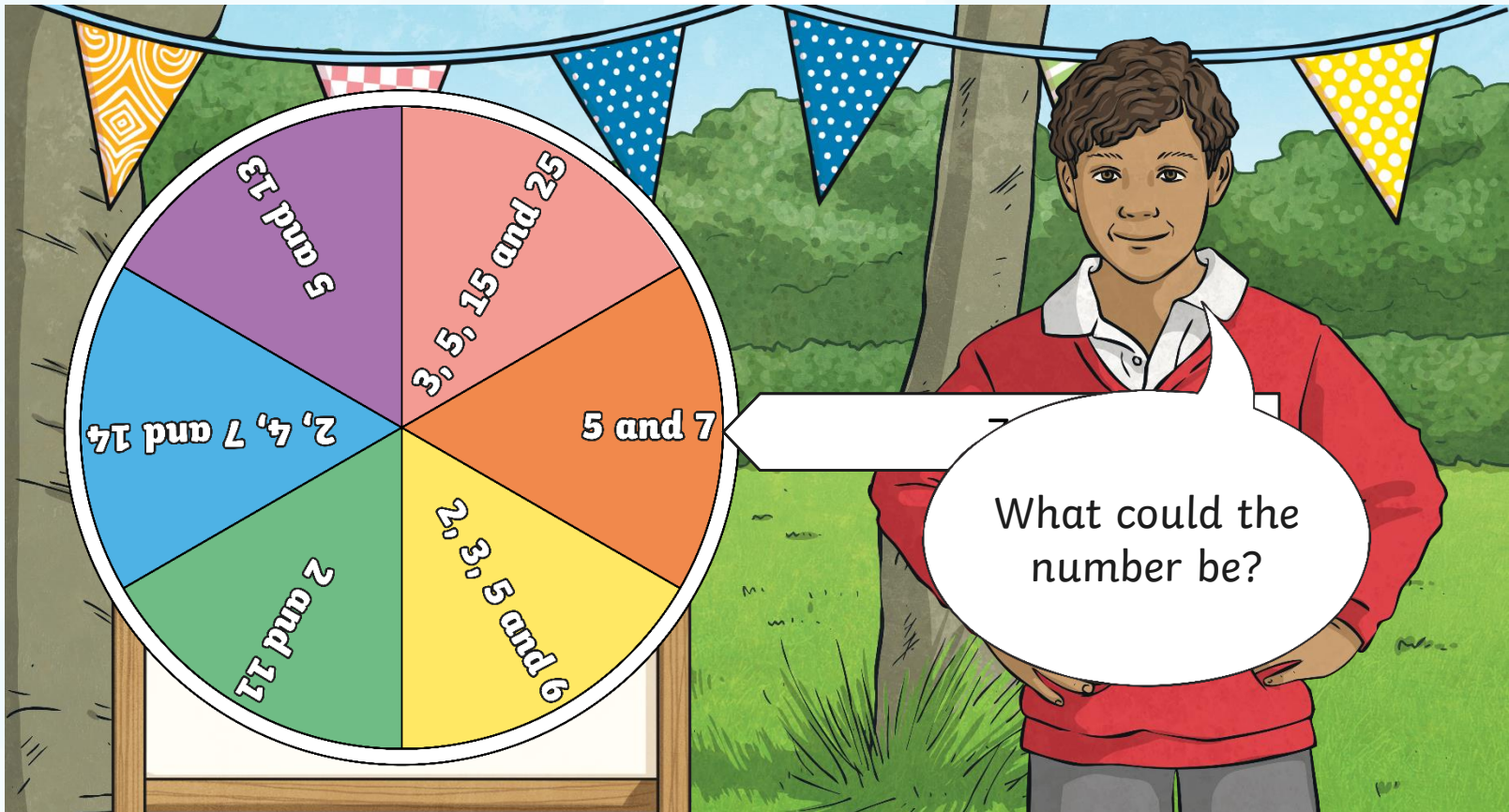
Spin the wheel.
Find the factors of the number that it lands on.



Factor Finder

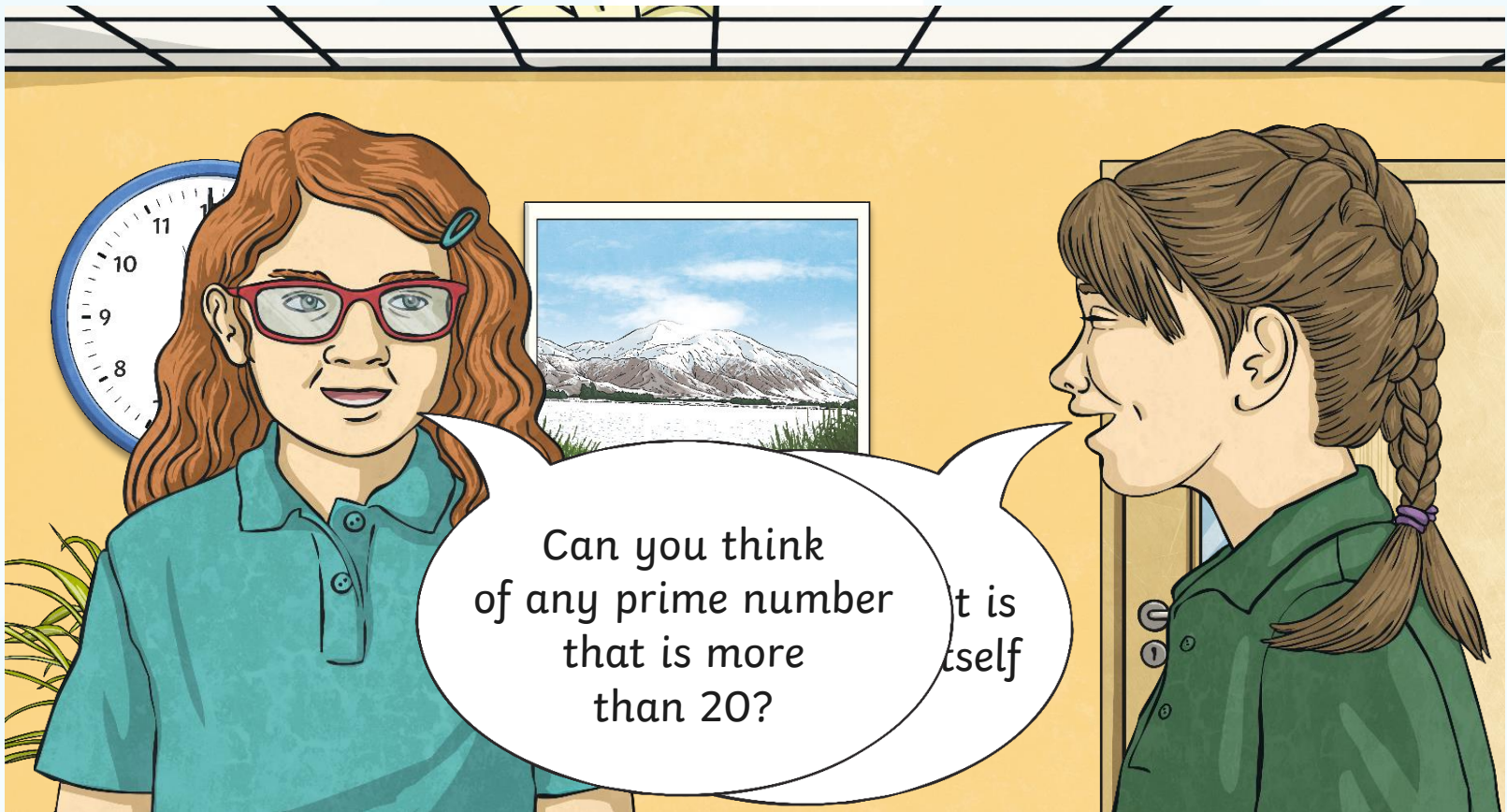


Here are some factors of a number that is less than 100.

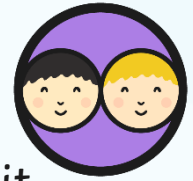


Prime Training

What does the term 'prime number' mean?



Hidden Prime



Circle as many prime numbers as you can within the time limit.
Click the stopwatch for a 5-minute countdown.

Identifying Prime Numbers 0-200

I can identify prime numbers.

Circle as many prime numbers as you can within the time limit.

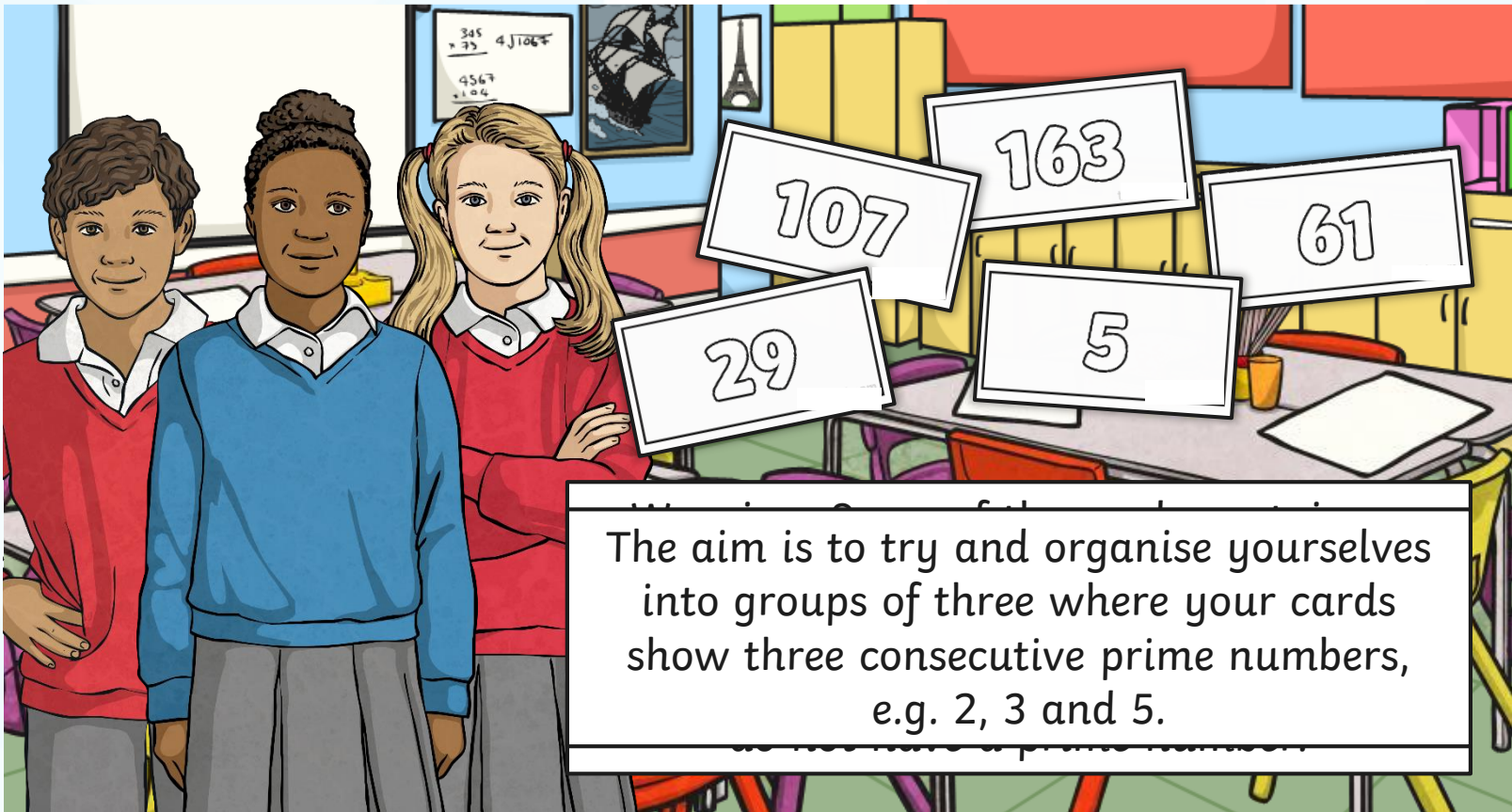
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110

Time's Up!

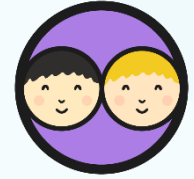
Gathering Intel



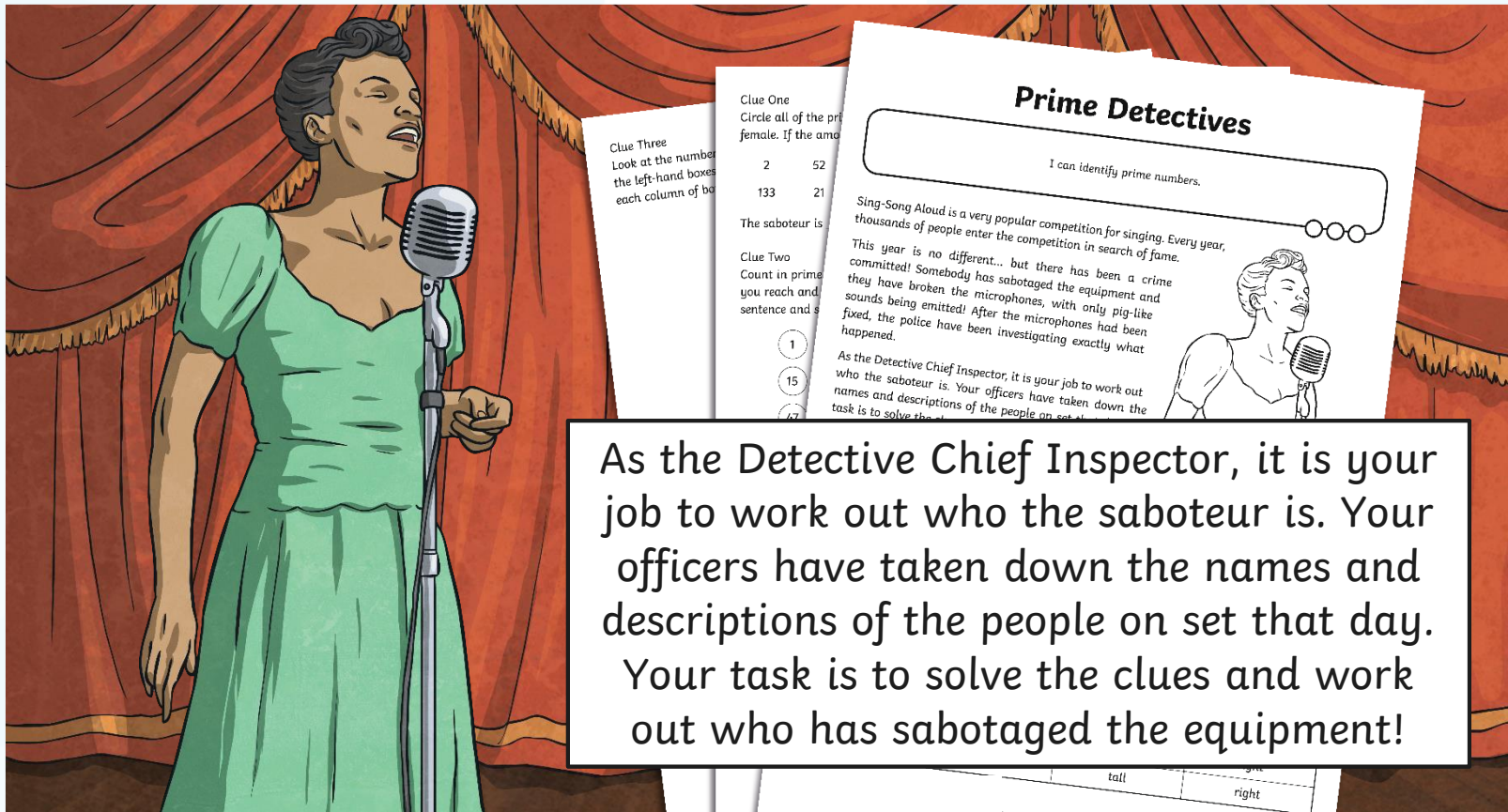
Each of you will receive an Intel Prime Card.



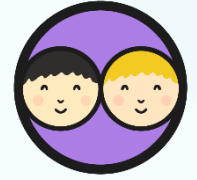
Case Investigation



Sing-Song Aloud is a very popular competition for singing. Every year, thousands of people enter the competition in search of fame.



Case Investigation

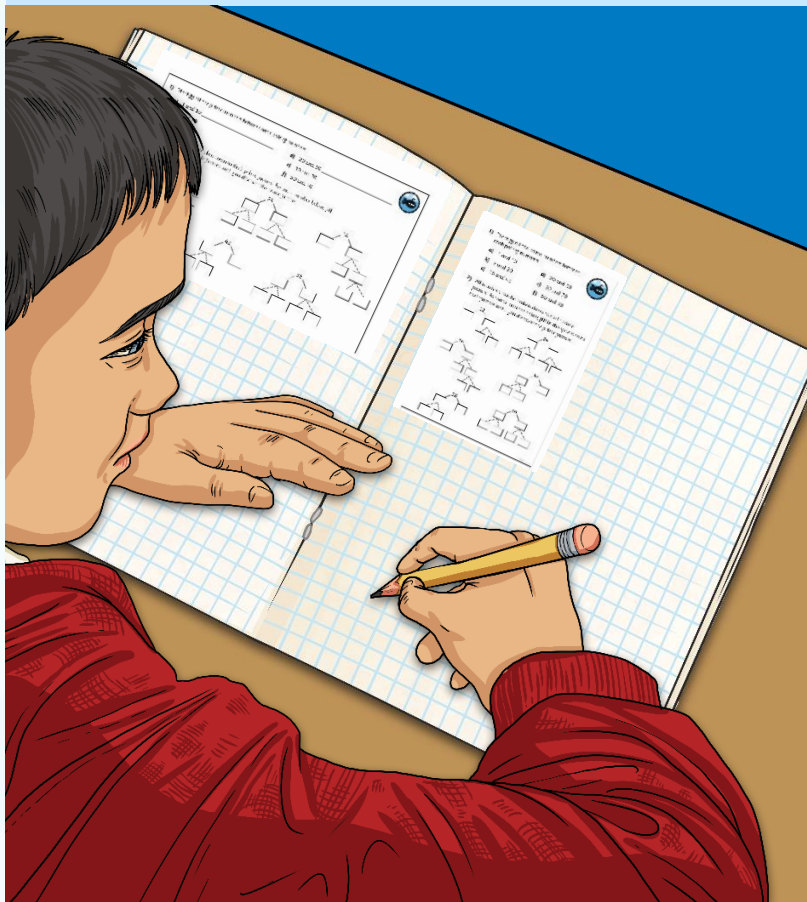


Who was the saboteur?



Diving into Mastery

Dive in by completing your own activity!



1) Identify all the prime numbers between each pair of numbers.

a) 1 and 20 d) 20 and 50
 b) 5 and 20 e) 30 and 70
 c) 15 and 45 f) 50 and 90

2) All numbers can be broken down to their prime factors. For each number below, fill in the spaces with their factors until you discover the prime factors.

12

```

graph TD
    12 --- A[ ]
    12 --- B[ ]
    A --- C[ ]
    A --- D[ ]
    B --- E[ ]
    B --- F[ ]
            
```

24

```

graph TD
    24 --- G[ ]
    24 --- H[ ]
    G --- I[ ]
    G --- J[ ]
    H --- K[ ]
    H --- L[ ]
            
```

16

```

graph TD
    16 --- M[ ]
    16 --- N[ ]
    M --- O[ ]
    M --- P[ ]
    N --- Q[ ]
    N --- R[ ]
            
```

42

```

graph TD
    42 --- S[ ]
    42 --- T[ ]
    S --- U[ ]
    S --- V[ ]
    T --- W[ ]
    T --- X[ ]
            
```

28

```

graph TD
    28 --- Y[ ]
    28 --- Z[ ]
    Y --- AA[ ]
    Y --- AB[ ]
    Z --- AC[ ]
    Z --- AD[ ]
            
```

36

```

graph TD
    36 --- AE[ ]
    36 --- AF[ ]
    AE --- AG[ ]
    AE --- AH[ ]
    AF --- AI[ ]
    AF --- AJ[ ]
            
```

1) Identify all the prime numbers between each pair of numbers.

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    A --- D[ ]
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    B --- F[ ]
            
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```

graph TD
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    24 --- H[ ]
    G --- I[ ]
    G --- J[ ]
    H --- K[ ]
    H --- L[ ]
            
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graph TD
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    16 --- N[ ]
    M --- O[ ]
    M --- P[ ]
    N --- Q[ ]
    N --- R[ ]
            
```

42

```

graph TD
    42 --- S[ ]
    42 --- T[ ]
    S --- U[ ]
    S --- V[ ]
    T --- W[ ]
    T --- X[ ]
            
```

28

```

graph TD
    28 --- Y[ ]
    28 --- Z[ ]
    Y --- AA[ ]
    Y --- AB[ ]
    Z --- AC[ ]
    Z --- AD[ ]
            
```

36

```

graph TD
    36 --- AE[ ]
    36 --- AF[ ]
    AE --- AG[ ]
    AE --- AH[ ]
    AF --- AI[ ]
    AF --- AJ[ ]
            
```

3) Who do you agree with? Explain your reasoning and provide examples.

Benyang
 I think there are more prime numbers between 1 and 50.

Sienna

I think there are more prime numbers between 50 and 100.

2) Do you agree with Michael's statement? Explain your reasoning?

Michael
 All prime numbers are odd, but not all odd numbers are prime.

3) Arthur sets a challenge for his friend Kenneth. Is Kenneth correct? Explain your reasoning.

Arthur
 I am thinking of a number. It is greater than 40. It is less than 60. It is a prime number. The sum of its digits is an even number. How many possibilities are there for what the number could be?

Kenneth

There are two possibilities.

1) Who do you agree with? Explain your reasoning and provide examples.

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Sienna

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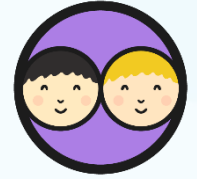
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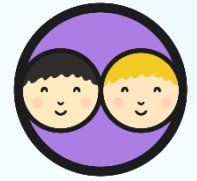
Prime Number Generator



Create your own prime number question for your partner to solve.



Prime Number Generator



Create five prime numbers using the provided digits on the sheet.


Prime Number Generator

I can identify prime numbers.

Use each digit once to create five prime numbers. Various answers include:

5, 47, 61, 23, 809
2, 5, 13, 647, 809

0 1 2 3 4 5 6
7 8 9



Aim



- I can identify prime numbers.

Success Criteria

- I know what 'prime numbers' are.
- I can identify prime numbers.

