

Prime Numbers

Prime Numbers

1a. Circle the prime numbers.

3, 8, 9, 17, 23, 31



VF

1b. Circle the prime numbers.

2, 6, 11, 24, 37, 40



VF

2a. Which of the following are composite numbers?

5

29

35

19

12

38



VF

2b. Which of the following are composite numbers?

60

13

21

32

41

77



VF

3a. Circle the numbers which are in the wrong place.

| Prime Numbers | Composite Numbers |
|---------------|-------------------|
| 33 | 12 |
| 10 | 26 |
| 11 | 31 |
| 2 | 40 |



VF

3b. Circle the numbers which are in the wrong place.

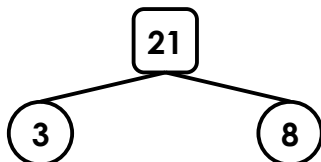
| Prime Numbers | Composite Numbers |
|---------------|-------------------|
| 29 | 46 |
| 7 | 39 |
| 43 | 23 |
| 42 | 5 |



VF

4a. True or false?

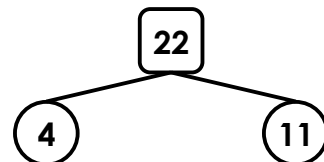
The factor tree below is correct.



VF

4b. True or false?

The factor tree below is incorrect.



VF

Prime Numbers

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5a. Circle the numbers that have 2 as a prime factor.

4, 5, 9, 18, 29, 32



VF

5b. Circle the numbers that have 5 as a prime factor.

2, 13, 15, 23, 30, 43



VF

6a. Which of the following are composite numbers that have 7 as a prime factor?

| | | |
|----|----|----|
| 89 | 17 | 14 |
| 32 | 49 | 7 |



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6b. Which of the following are composite numbers that have 11 as a prime factor?

| | | |
|----|----|-----|
| 11 | 66 | 100 |
| 28 | 37 | 44 |



VF

7a. Circle the numbers which are in the wrong place.

| Prime Factor of 30 | Not a Prime Factor of 30 |
|--------------------|--------------------------|
| 2 | 30 |
| 4 | 6 |
| 5 | 15 |
| 10 | 3 |



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7b. Circle the numbers which are in the wrong place.

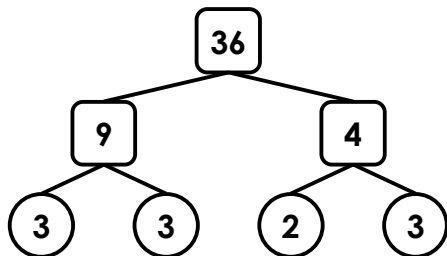
| Prime Factor of 42 | Not a Prime Factor of 42 |
|--------------------|--------------------------|
| 21 | 2 |
| 7 | 28 |
| 3 | 35 |
| 14 | 4 |



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8a. True or false?

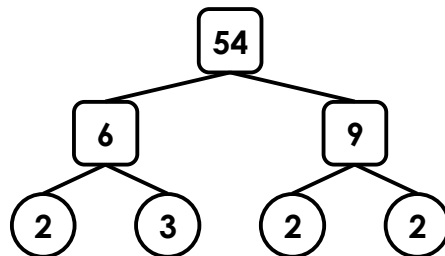
The factor tree below is correct.



VF

8b. True or false?

The factor tree below is incorrect.



VF

Prime Numbers

9a. Circle the numbers where the sum of the prime factors is less than 12.

15, 26, 28, 32, 41, 49



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Prime Numbers

9b. Circle the numbers where the sum of the prime factors is greater than 12.

11, 21, 36, 38, 44, 56



VF

10a. Which of the following are composite numbers and have 8 as the sum of their prime factors?

| | | |
|----|----|----|
| 15 | 89 | 20 |
| 59 | 16 | 9 |



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10b. Which of the following are composite numbers and have 10 as the sum of their prime factors?

| | | |
|----|----|----|
| 29 | 25 | 30 |
| 46 | 35 | 59 |



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11a. Circle the number pairs which are in the wrong place.

| Sum of Prime Factors is 15 | Sum of Prime Factors is not 15 |
|----------------------------|--------------------------------|
| 16 and 20 | 10 and 16 |
| 21 and 6 | 12 and 21 |



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11b. Circle the number pairs which are in the wrong place.

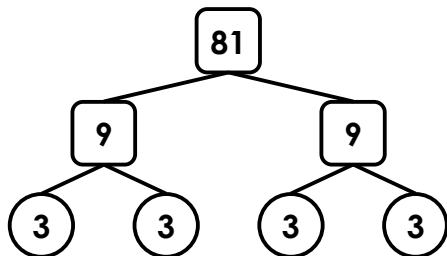
| Sum of Prime Factors is 18 | Sum of Prime Factors is not 18 |
|----------------------------|--------------------------------|
| 38 and 44 | 42 and 26 |
| 14 and 27 | 25 and 15 |



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12a. True or false?

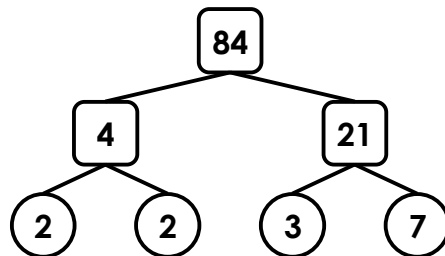
The sum of the prime factors in the tree below does not equal 13.



VF

12b. True or false?

The sum of the prime factors in the tree below equals 13.



VF