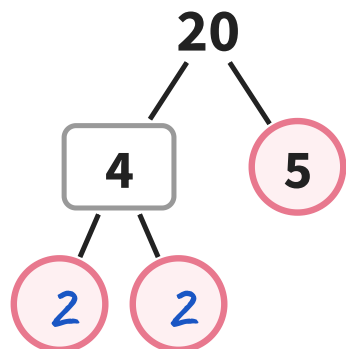


Prime Factor Decomposition

ANSWERS

1

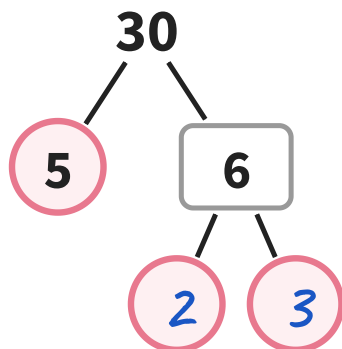
Write 20 as a product of prime factors.



$$20 = \boxed{2} \times \boxed{2} \times \boxed{5}$$

2

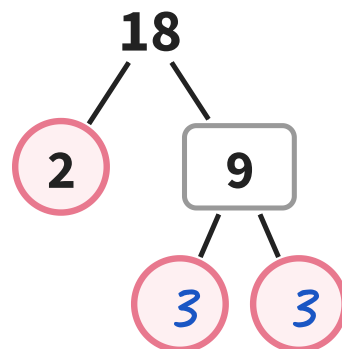
Write 30 as a product of prime factors.



$$30 = \boxed{2} \times \boxed{3} \times \boxed{5}$$

3

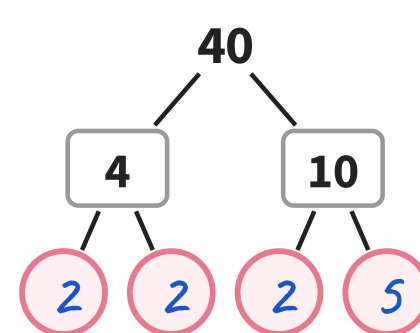
Write 18 as a product of prime factors.



$$18 = \boxed{2} \times \boxed{3} \times \boxed{3}$$

4

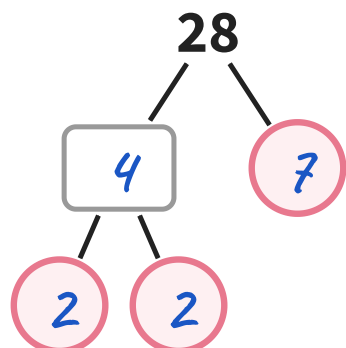
Write 40 as a product of prime factors.



$$40 = \boxed{2} \times \boxed{2} \times \boxed{2} \times \boxed{5}$$

5

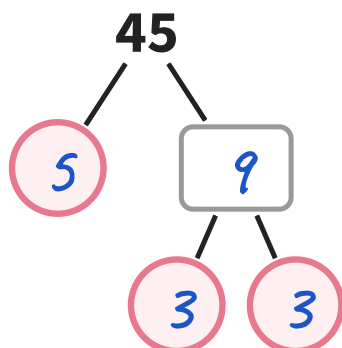
Write 28 as a product of prime factors.



$$28 = \boxed{2} \times \boxed{2} \times \boxed{7}$$

6

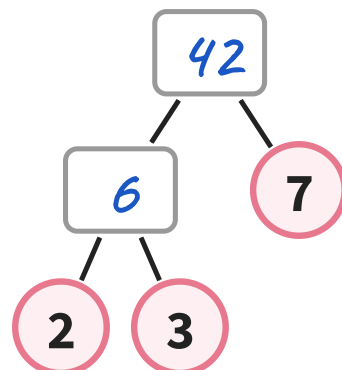
Write 45 as a product of prime factors.



$$45 = \boxed{3} \times \boxed{3} \times \boxed{5}$$

7

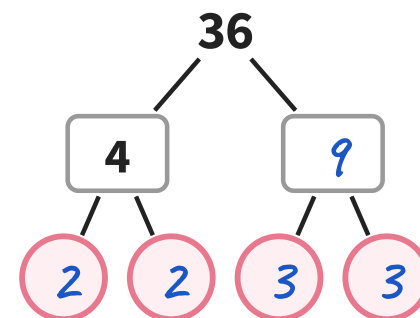
Find the number at the top of this factor tree.



$$\boxed{42} = 2 \times 3 \times 7$$

8

Write 36 as a product of prime factors.



$$36 = \boxed{2} \times \boxed{2} \times \boxed{3} \times \boxed{3}$$

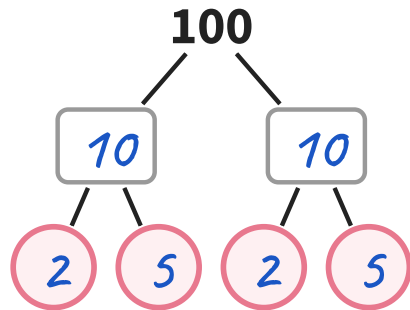
Prime Factor Decomposition *further practice*

ANSWERS

9



Write 100 as a product of prime factors.

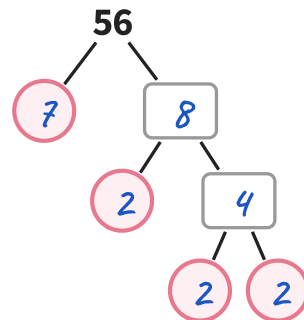


$$100 = 2 \times 2 \times 5 \times 5$$

10



Write 56 as a product of prime factors.

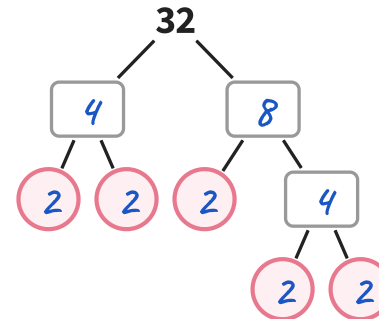


$$56 = 2 \times 2 \times 2 \times 7$$

11



A box holds 32 pens in 4 rows of 8. Write 32 as a product of prime factors.

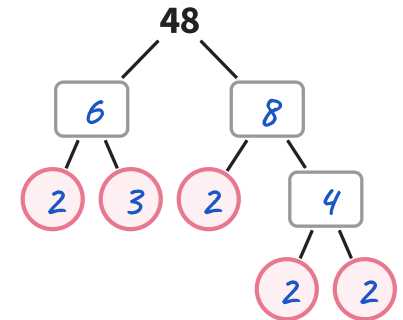


$$32 = 2 \times 2 \times 2 \times 2 \times 2$$

12



Write 48 as a product of prime factors.

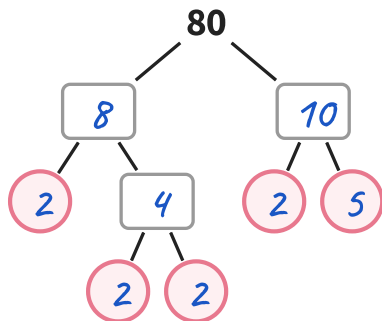


$$48 = 2 \times 2 \times 2 \times 2 \times 3$$

13



A hall has 80 chairs in 8 rows of 10. Write 80 as a product of prime factors.

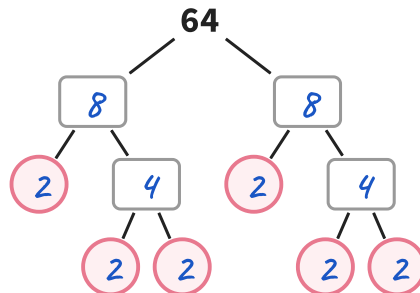


$$80 = 2 \times 2 \times 2 \times 2 \times 5$$

14



Write 64 as a product of prime factors.



$$64 = 2 \times 2 \times 2 \times 2 \times 2 \times 2$$

15



A number is $2 \times 3 \times 3 \times 3$. What is the number?

$$2 \times 3 \times 3 \times 3$$

$$2 \times 3 = 6, 3 \times 3 = 9$$

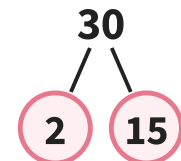
$$6 \times 9 = 54$$

Answer 54

16



Mia writes $30 = 2 \times 15$ as a product of prime factors. What has she done wrong?



Mia is wrong because

15 is not prime. $15 = 3 \times 5$

$$30 = 2 \times 3 \times 5$$