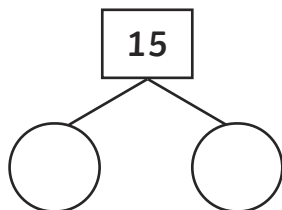


Prime Factor Trees

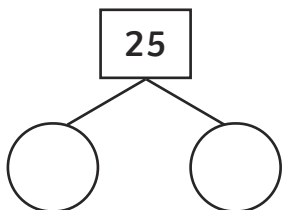
1. Find the two prime factors of the numbers below:

a.



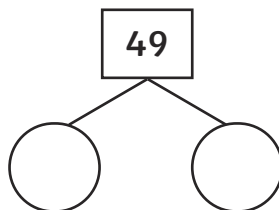
$$15 = _ \times _$$

b.



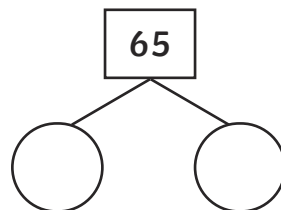
$$25 = _ \times _$$

c.



$$49 = _ \times _$$

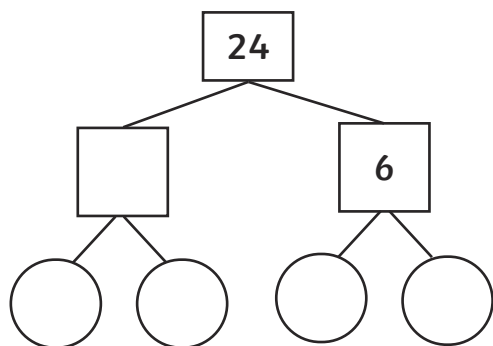
d.



$$65 = _ \times _$$

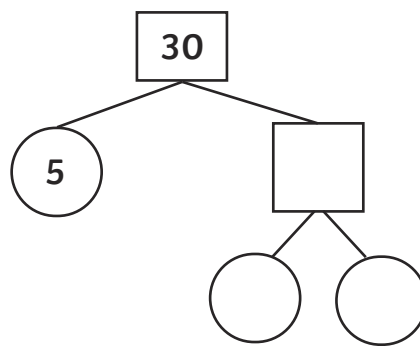
2. Complete the factor trees below:

a.



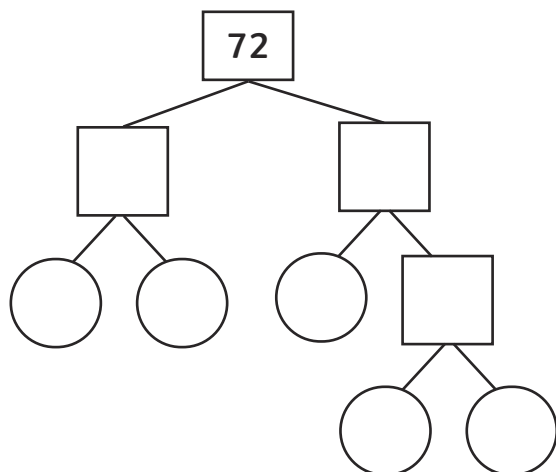
$$24 = _ \times _ \times _ \times _$$

b.



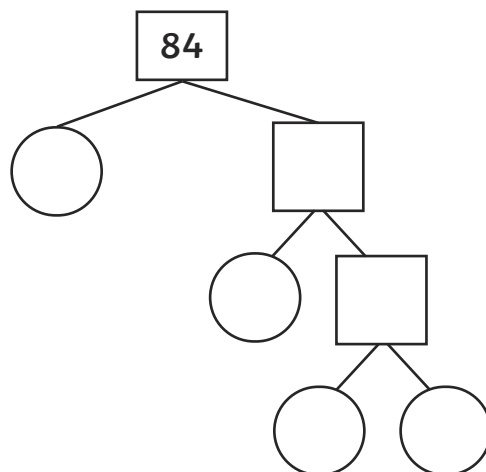
$$30 = _ \times _ \times _$$

c.



$$72 = _ \times _ \times _ \times _ \times _$$

d.



$$84 = _ \times _ \times _ \times _$$

3. Create factor trees to find the prime factors of the numbers below.

a.

28

b.

42

28 =

42 =

c.

81

d.

100

81 =

100 =

e.

108

f.

144

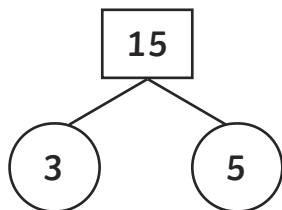
108 =

144 =

Prime Factor Trees ANSWER KEY

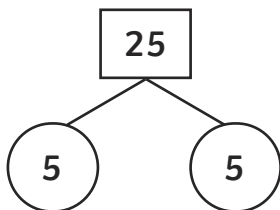
1. Find the two prime factors of the numbers below:

a.



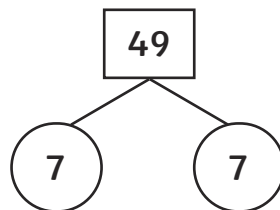
$$15 = 3 \times 5$$

b.



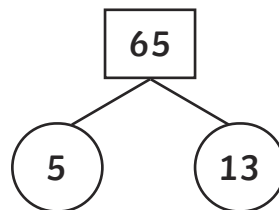
$$25 = 5 \times 5$$

c.



$$49 = 7 \times 7$$

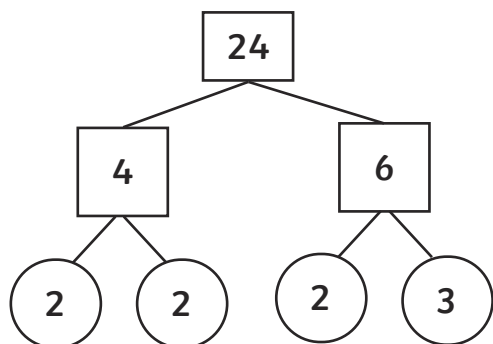
d.



$$65 = 5 \times 13$$

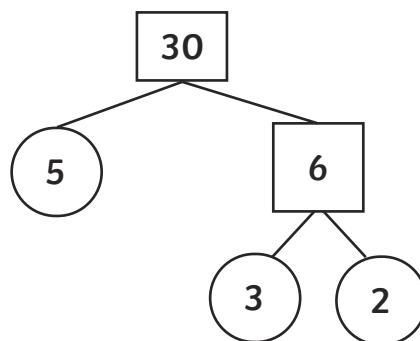
2. Complete the factor trees below:

a.



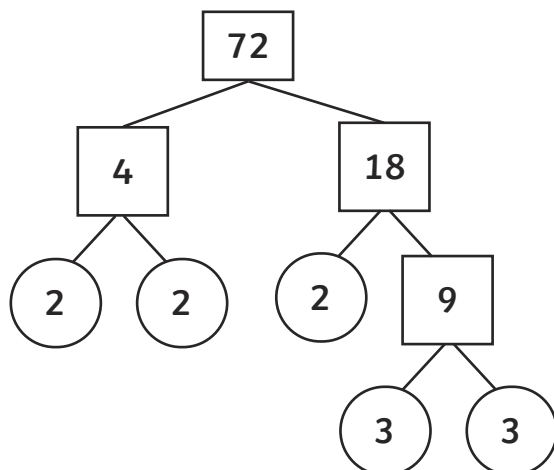
$$24 = 2 \times 2 \times 2 \times 3$$

b.



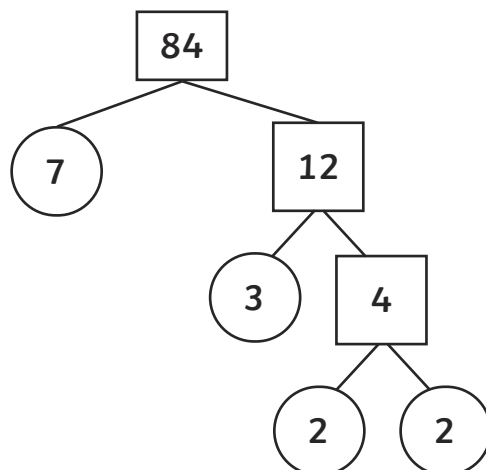
$$30 = 5 \times 3 \times 2$$

c.



$$72 = 2 \times 2 \times 2 \times 3 \times 3$$

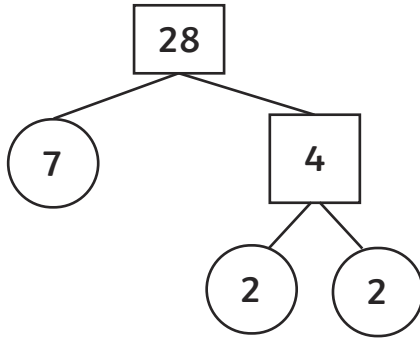
d.



$$84 = 2 \times 2 \times 3 \times 7$$

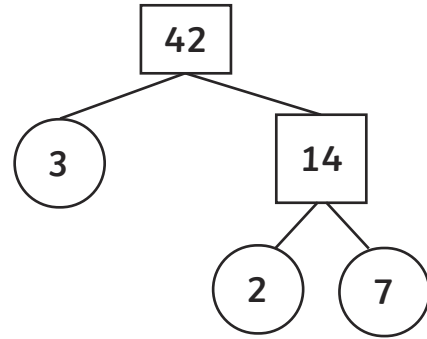
3. Create factor trees to find the prime factors of the numbers below.

a.



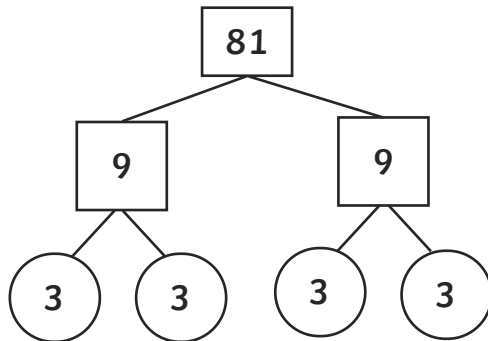
$$28 = 2 \times 2 \times 7$$

b.



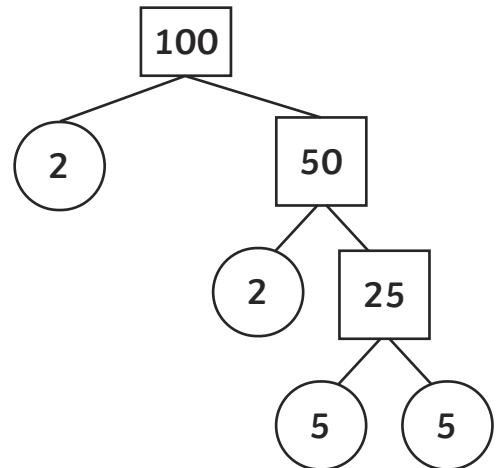
$$42 = 2 \times 3 \times 7$$

c.



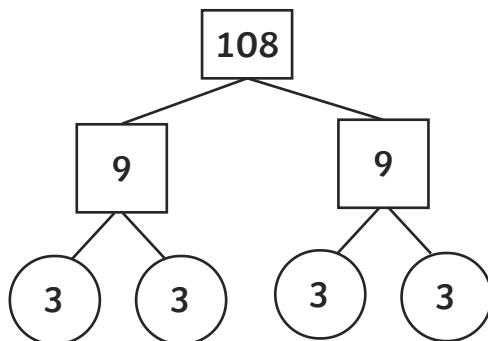
$$81 = 3 \times 3 \times 3 \times 3$$

d.



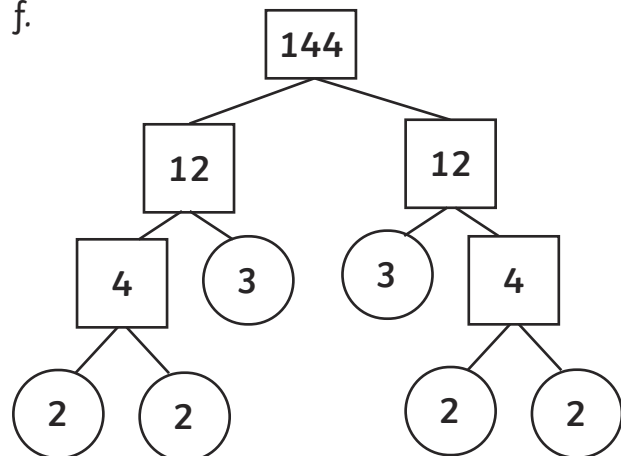
$$100 = 2 \times 2 \times 5 \times 5$$

e.



$$108 = 2 \times 2 \times 3 \times 3 \times 3$$

f.



$$144 = 2 \times 2 \times 2 \times 2 \times 3 \times 3$$