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Math worksheet on *'Factoring - Venn Diagrams - 2 Numbers - Populated Venn without Unique to Distinct Factors (Level 3)'*. Part of a broader unit on *'Factoring and Venn Factor Diagrams - Practice'*
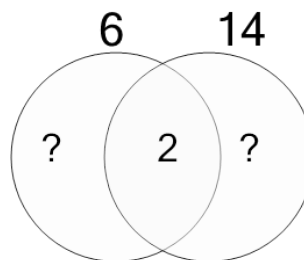
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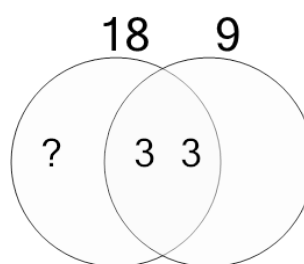**1** Complete the factor diagram and use it to find the set of all distinct prime factors.

6   14

? 2 ?

a	{3, 7}
b	{2, 3, 7, 3}
c	{2, 3, 7, 7}
d	{2, 3, 7, 4}
e	{3, 7, 6, 2, 6}
f	{2, 3, 7}

2 Complete the factor diagram and use it to find the set of all distinct prime factors.

18   15

? 3 ?
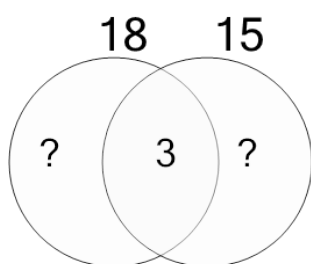
a	{2, 3, 3, 5}
b	{2, 3, 3, 3}
c	{3, 3, 5}
d	{2, 3, 3, 5, 4}
e	{2, 3, 5}
f	{2, 3, 3, 4}

3 Complete the factor diagram and use it to find the set of all distinct prime factors.

18   9

? 3 3

a	{2, 6, 3}
b	{2, 3, 3, 4}
c	{6, 3, 3}
d	{2, 3, 7}
e	{2, 3, 3}
f	{2, 3, 3, 5}

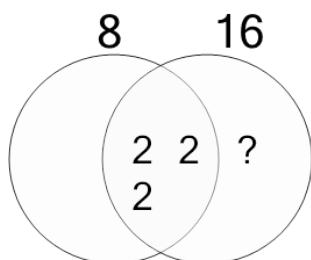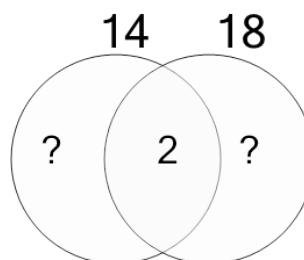**4** Complete the factor diagram and use it to find the set of all distinct prime factors.

8   16

2 2 ?
2

a	{2, 2, 2, 2}
b	{2, 2, 2, 2, 6}
c	{2, 2, 2, 7}
d	{2, 2, 7, 2}
e	{2, 7, 2, 2}
f	{2, 2, 2}

5 Complete the factor diagram and use it to find the set of all distinct prime factors.

14   18

? 2 ?

a	{2, 7, 3, 3}
b	{2, 7, 3, 3, 5}
c	{2, 7, 3, 3, 3}
d	{2, 3, 3}
e	{2, 7, 3, 3, 6}
f	{2, 7, 3, 3, 7}

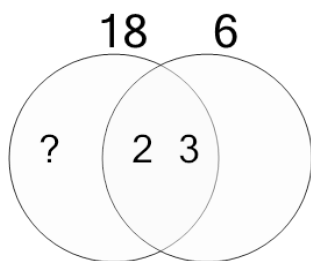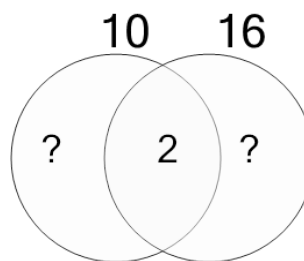**6** Complete the factor diagram and use it to find the set of all distinct prime factors.

18   6

? 2 3

a	{2, 3, 3, 7}
b	{2, 3}
c	{2, 3, 5, 2, 3}
d	{3, 3, 4, 2, 5}
e	{2, 3, 3}
f	{4, 3, 3}

7 Complete the factor diagram and use it to find the set of all distinct prime factors.

10   16

? 2 ?

a	{2, 5, 2, 2, 2, 3}
b	{2, 5, 2, 2, 2, 6}
c	{2, 5, 2, 2, 2, 4}
d	{2, 5, 2, 2, 2}
e	{2, 5, 2, 3, 2}
f	{5, 2, 2, 2}

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