

Teacher notes

Children will explore addition and subtraction fact families. They will do this by representing counters on ten frames and providing related facts. This activity can be completed on related fact family laminated sheets with a dry erase pen. Alternatively, the calculations could be written in books.

DEVELOPING



Children will be given related fact cards with counters up to 10 shown on ten frames. Children may only be able to provide one addition calculation and one subtraction calculation.

SECURE



Children will be given related fact cards with counters up to 20 shown in colour order. Children will provide all related facts.

MASTERY



Children will be given related fact cards with counters up to 20 shown in a random order. Children will provide all related facts.

Example:

Step 1: Children will represent their fact card using counters on the ten frames.

Related fact families

___ + ___ = ___
___ + ___ = ___

___ - ___ = ___
___ - ___ = ___

Step 2: Children will provide all related addition and subtraction facts.

Related fact families

9 + 5 = 14
5 + 9 = 14

14 - 9 = 5
14 - 5 = 9

Related fact families

$$\underline{\quad\quad} + \underline{\quad\quad} = \underline{\quad\quad}$$

$$\underline{\quad\quad} + \underline{\quad\quad} = \underline{\quad\quad}$$

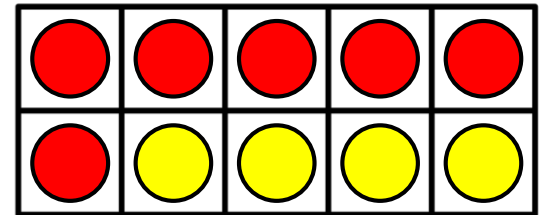
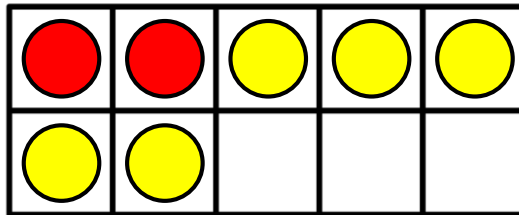
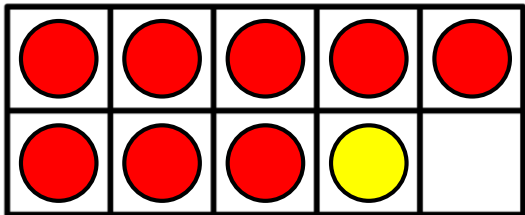
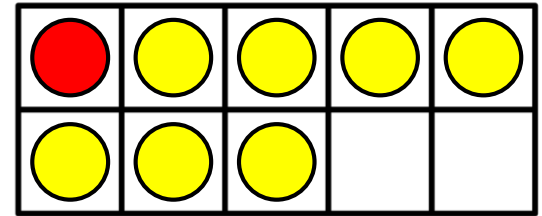
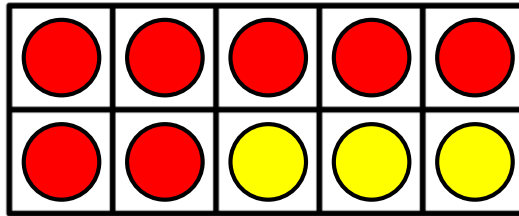
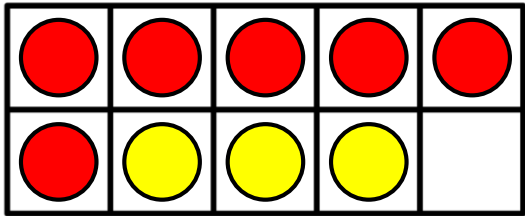
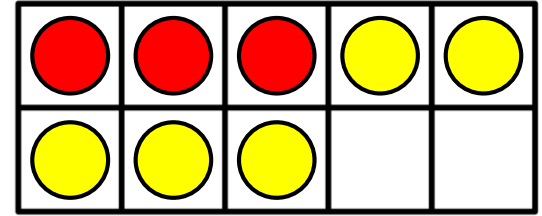
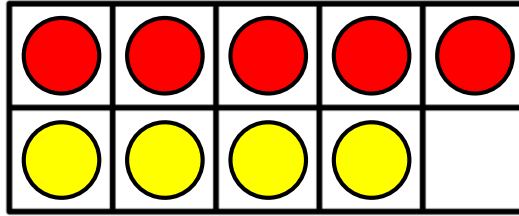
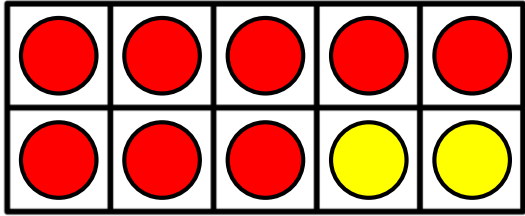
$$\underline{\quad\quad} - \underline{\quad\quad} = \underline{\quad\quad}$$

$$\underline{\quad\quad} - \underline{\quad\quad} = \underline{\quad\quad}$$

Related fact cards



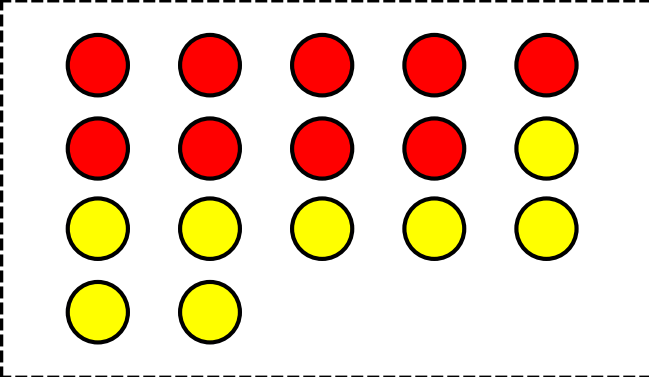
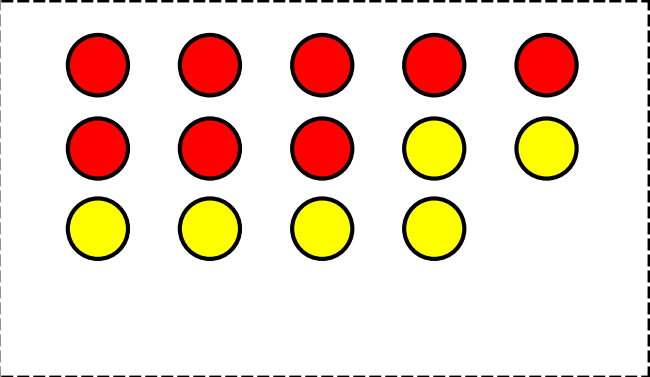
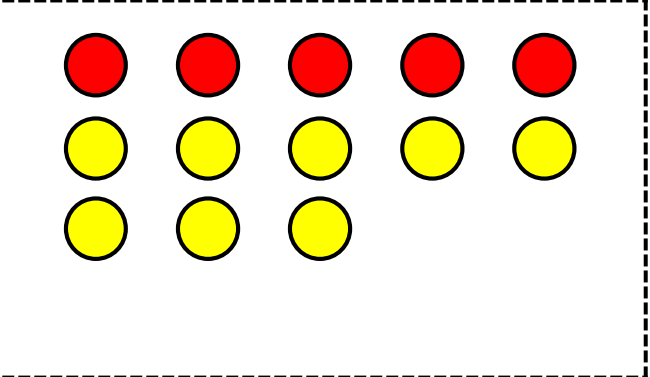
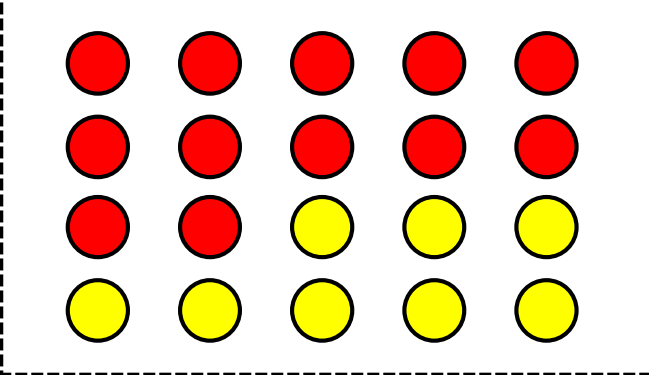
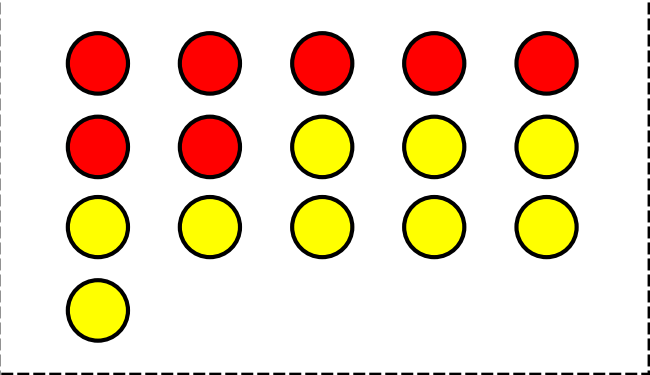
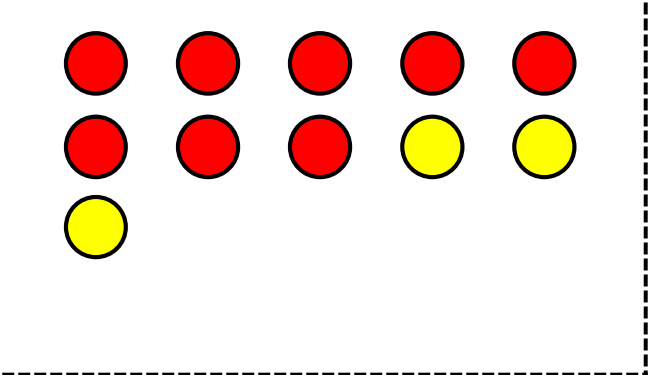
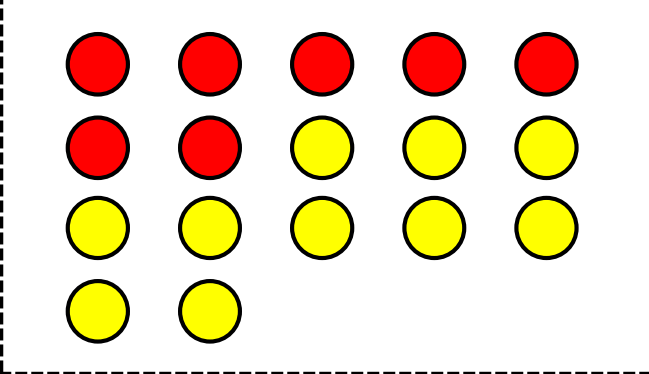
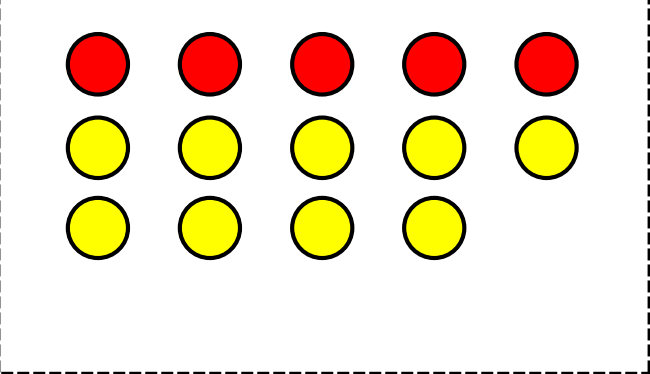
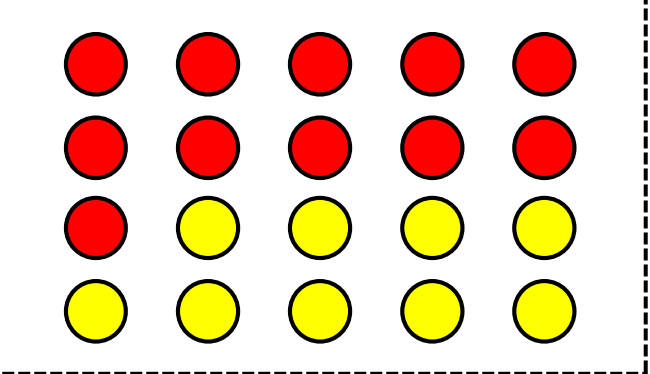
Select a card and show the following counters on your ten frames. Then completed the related facts.



Related fact cards



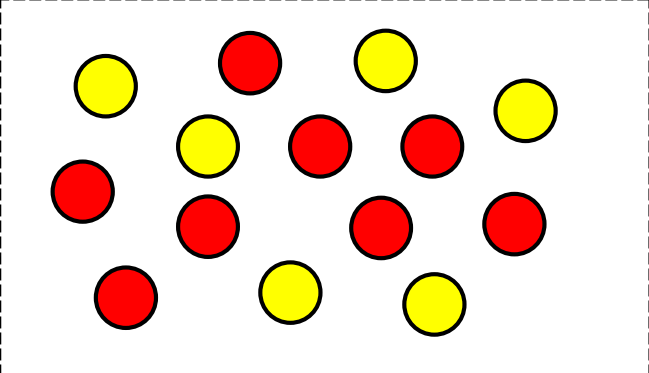
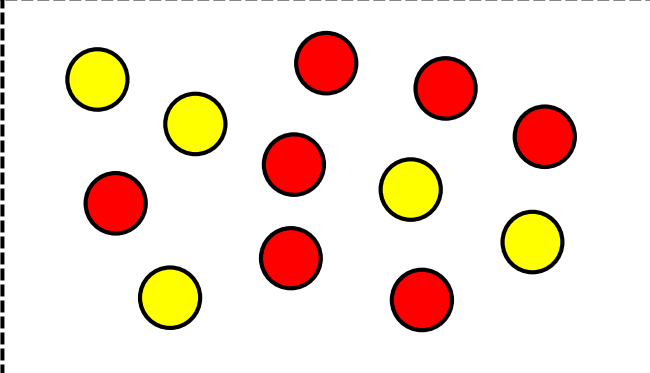
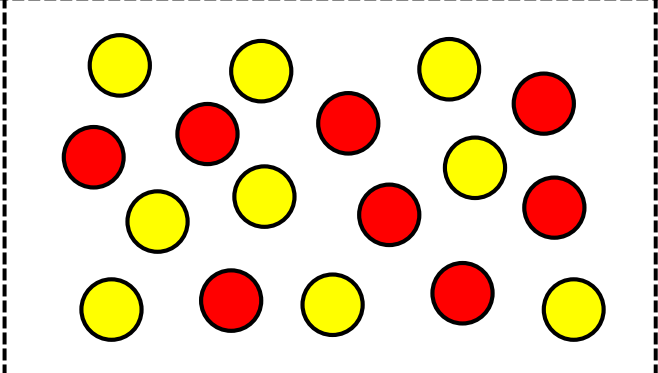
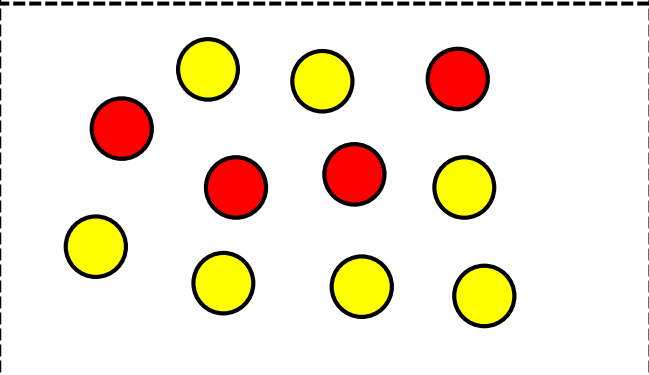
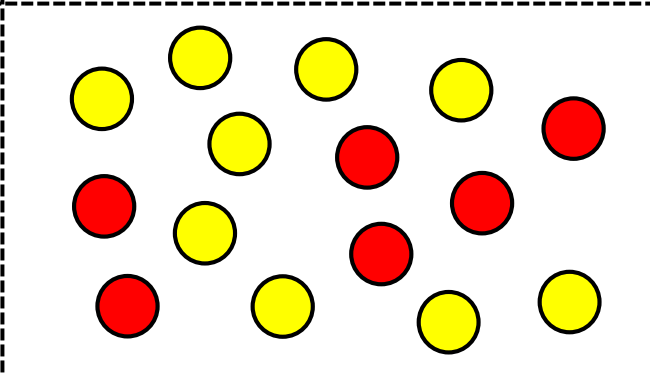
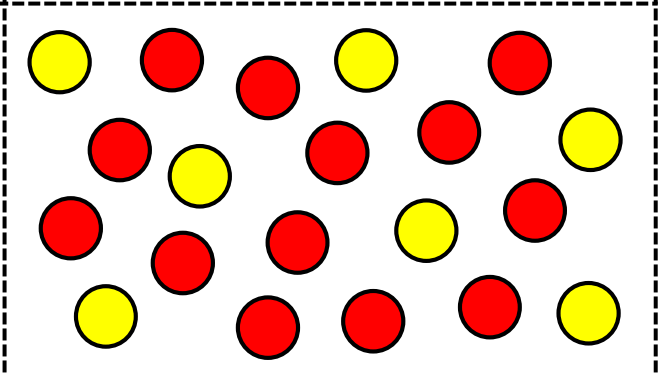
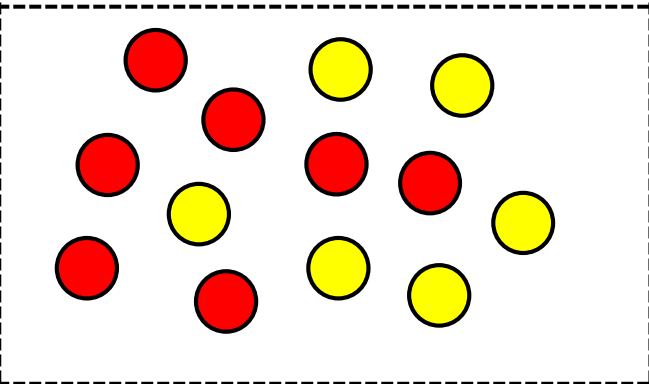
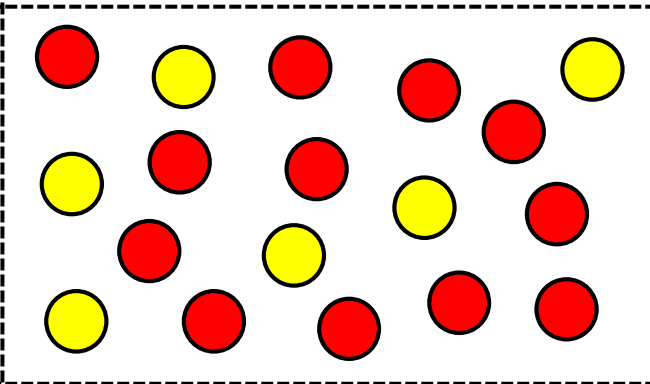
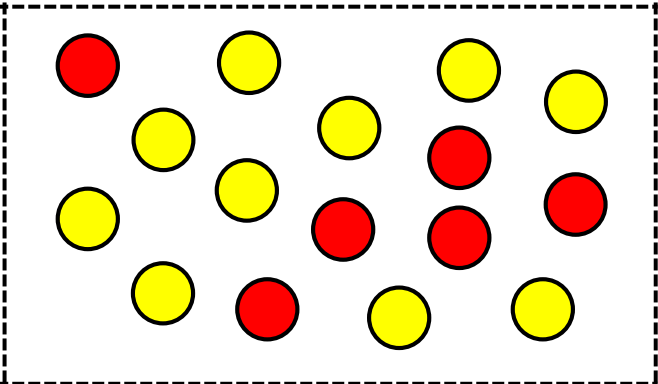
Select a card and show the following counters on your ten frames. Then completed the related facts.

Related fact cards



Select a card and show the following counters on your ten frames. Then completed the related facts.

Stem sentences

$_____ + _____ = _____$

$_____ + _____ = _____$

$_____ - _____ = _____$

$_____ - _____ = _____$

$_____ + _____ = _____$

$_____ + _____ = _____$

$_____ - _____ = _____$

$_____ - _____ = _____$

$_____ + _____ = _____$

$_____ + _____ = _____$

$_____ - _____ = _____$

$_____ - _____ = _____$

$_____ + _____ = _____$

$_____ + _____ = _____$

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$_____ + _____ = _____$

$_____ + _____ = _____$

$_____ - _____ = _____$

$_____ - _____ = _____$

$_____ + _____ = _____$

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$_____ - _____ = _____$

$_____ - _____ = _____$

$_____ + _____ = _____$

$_____ + _____ = _____$

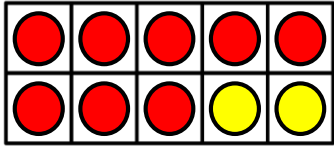
$_____ - _____ = _____$

$_____ - _____ = _____$

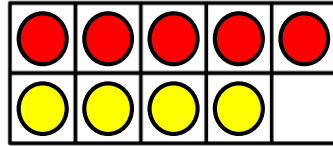
Answers - Related fact cards



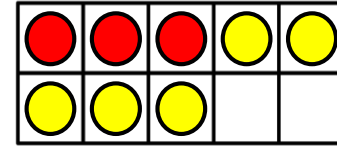
Select a card and show the following counters on your ten frames. Then completed the related facts.



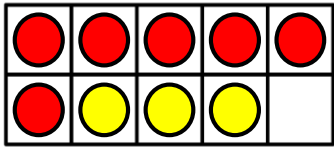
$$\begin{aligned}8 + 2 &= 10 \\2 + 8 &= 10 \\10 - 8 &= 2 \\10 - 2 &= 8\end{aligned}$$



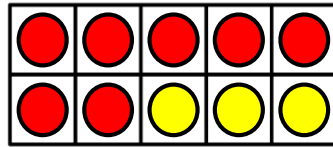
$$\begin{aligned}5 + 4 &= 9 \\4 + 5 &= 9 \\9 - 5 &= 4 \\9 - 4 &= 5\end{aligned}$$



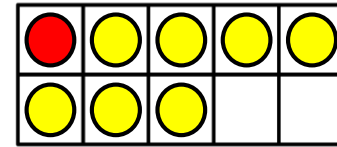
$$\begin{aligned}3 + 5 &= 8 \\5 + 3 &= 8 \\8 - 3 &= 5 \\8 - 5 &= 3\end{aligned}$$



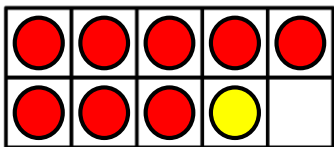
$$\begin{aligned}6 + 3 &= 9 \\3 + 6 &= 9 \\9 - 6 &= 3 \\9 - 3 &= 6\end{aligned}$$



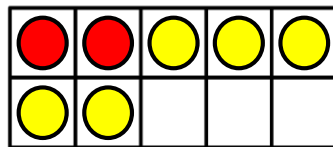
$$\begin{aligned}7 + 3 &= 10 \\3 + 7 &= 10 \\10 - 7 &= 3 \\10 - 3 &= 7\end{aligned}$$



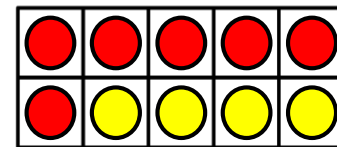
$$\begin{aligned}1 + 7 &= 8 \\7 + 1 &= 8 \\8 - 1 &= 7 \\8 - 7 &= 1\end{aligned}$$



$$\begin{aligned}8 + 1 &= 9 \\1 + 8 &= 9 \\9 - 8 &= 1 \\9 - 1 &= 8\end{aligned}$$



$$\begin{aligned}2 + 5 &= 7 \\5 + 2 &= 7 \\7 - 2 &= 5 \\7 - 5 &= 2\end{aligned}$$

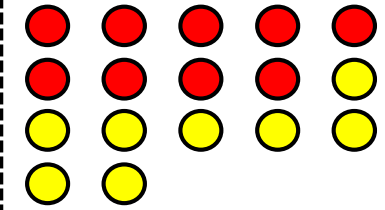
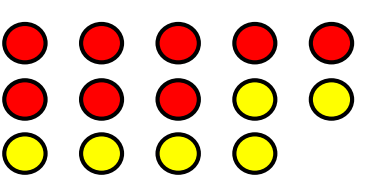
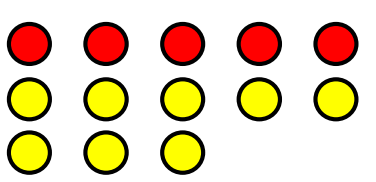
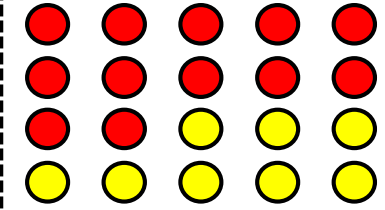
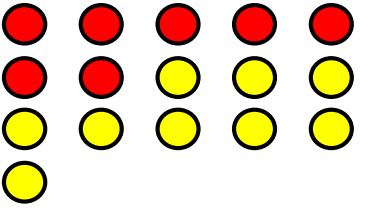
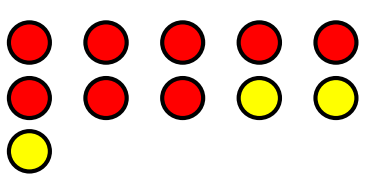
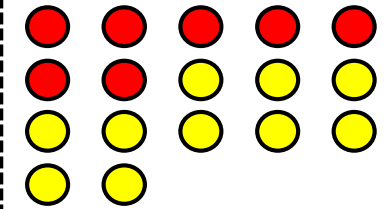
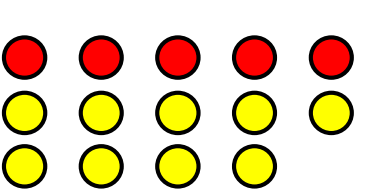
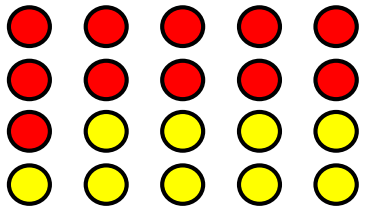


$$\begin{aligned}6 + 4 &= 10 \\4 + 6 &= 10 \\10 - 6 &= 4 \\10 - 4 &= 6\end{aligned}$$

Answers - Related fact cards



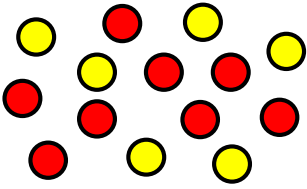
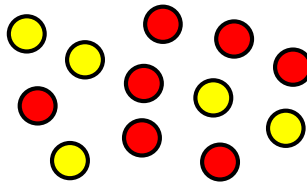
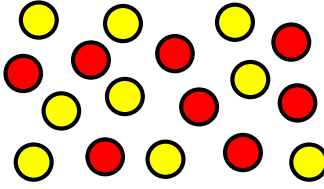
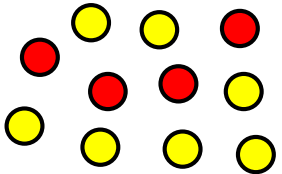
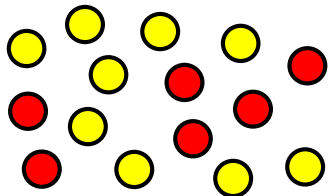
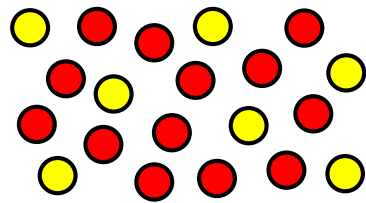
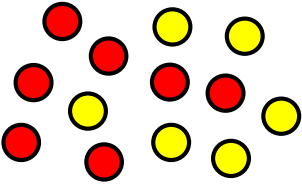
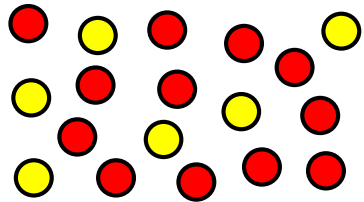
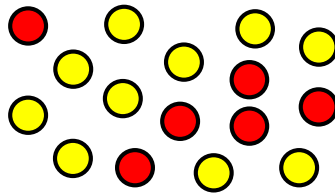
Select a card and show the following counters on your ten frames. Then completed the related facts.

 $\begin{aligned}9 + 8 &= 17 \\8 + 9 &= 17 \\17 - 9 &= 8 \\17 - 8 &= 9\end{aligned}$	 $\begin{aligned}8 + 6 &= 14 \\6 + 8 &= 14 \\14 - 8 &= 6 \\14 - 6 &= 8\end{aligned}$	 $\begin{aligned}5 + 8 &= 13 \\8 + 5 &= 13 \\13 - 5 &= 8 \\13 - 8 &= 5\end{aligned}$
 $\begin{aligned}12 + 8 &= 20 \\8 + 12 &= 20 \\20 - 12 &= 8 \\20 - 8 &= 12\end{aligned}$	 $\begin{aligned}7 + 9 &= 16 \\9 + 7 &= 16 \\16 - 7 &= 9 \\16 - 9 &= 7\end{aligned}$	 $\begin{aligned}8 + 3 &= 11 \\3 + 8 &= 11 \\11 - 8 &= 3 \\11 - 3 &= 8\end{aligned}$
 $\begin{aligned}7 + 10 &= 17 \\10 + 7 &= 17 \\17 - 7 &= 10 \\17 - 10 &= 7\end{aligned}$	 $\begin{aligned}5 + 9 &= 14 \\9 + 5 &= 14 \\14 - 5 &= 9 \\14 - 9 &= 5\end{aligned}$	 $\begin{aligned}11 + 9 &= 20 \\9 + 11 &= 20 \\20 - 11 &= 9 \\20 - 9 &= 11\end{aligned}$

Answers - Related fact cards



Select a card and show the following counters on your ten frames. Then completed the related facts.

 $\begin{aligned}8 + 6 &= 14 \\6 + 8 &= 14 \\14 - 8 &= 6 \\14 - 6 &= 8\end{aligned}$	 $\begin{aligned}7 + 5 &= 12 \\5 + 7 &= 12 \\12 - 7 &= 5 \\12 - 5 &= 7\end{aligned}$	 $\begin{aligned}8 + 9 &= 17 \\9 + 8 &= 17 \\17 - 8 &= 9 \\17 - 9 &= 8\end{aligned}$
 $\begin{aligned}4 + 7 &= 11 \\7 + 4 &= 11 \\11 - 4 &= 7 \\11 - 7 &= 4\end{aligned}$	 $\begin{aligned}6 + 9 &= 15 \\9 + 6 &= 15 \\15 - 6 &= 9 \\15 - 9 &= 6\end{aligned}$	 $\begin{aligned}13 + 7 &= 20 \\7 + 13 &= 20 \\20 - 13 &= 7 \\20 - 7 &= 13\end{aligned}$
 $\begin{aligned}7 + 6 &= 13 \\6 + 7 &= 13 \\13 - 7 &= 6 \\13 - 6 &= 7\end{aligned}$	 $\begin{aligned}12 + 6 &= 18 \\6 + 12 &= 18 \\18 - 12 &= 6 \\18 - 6 &= 12\end{aligned}$	 $\begin{aligned}6 + 10 &= 16 \\10 + 6 &= 16 \\16 - 6 &= 10 \\16 - 10 &= 6\end{aligned}$