ACE

GO MATHS

STUDENT JOURNAL

YEAR 6

SAMPLE PAGES

Australian Curriculum Edition

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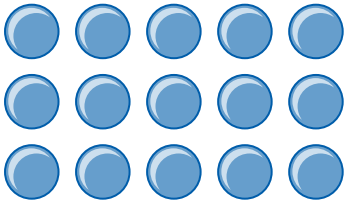
Finding Fractions of a Quantity

Loop the counters to show the fraction. Write a divison or multiplication number sentence to show your thinking.

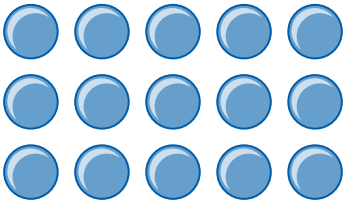
a.



$\frac{1}{5}$ of 15 is _____ because

_____

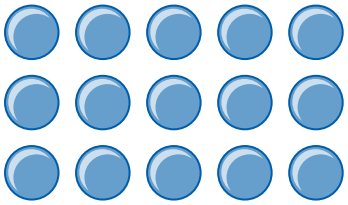
b.



$\frac{3}{5}$ of 15 is _____ because

_____

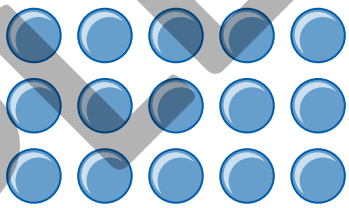
c.



$\frac{2}{5}$ of 15 is _____ because

_____

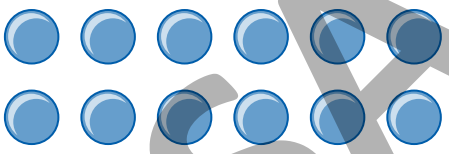
d.



$\frac{4}{5}$ of 15 is _____ because

_____

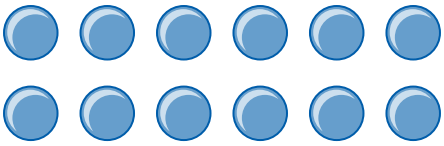
e.



$\frac{1}{6}$ of 12 is _____ because

_____

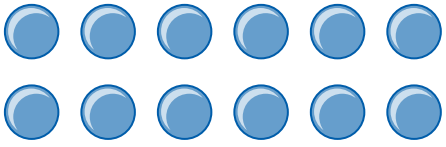
f.



$\frac{4}{6}$ of 12 is _____ because

_____

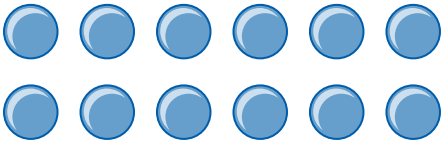
g.



$\frac{2}{6}$ of 12 is _____ because

_____

h.



$\frac{5}{6}$ of 12 is _____ because

_____

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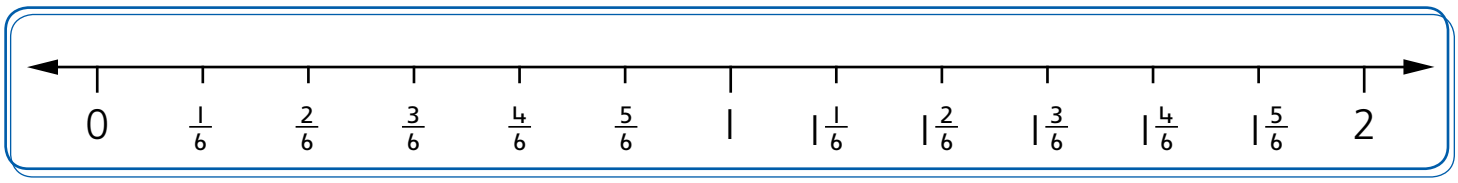
Find $\frac{2}{6}$, $\frac{3}{6}$ and $\frac{5}{6}$ of 24.

Adding Fractions – Same Denominators



1. Use the number line above to help you write the answers.

a. $\frac{2}{6} + \frac{3}{6} =$

b. $\frac{1}{6} + \frac{4}{6} =$

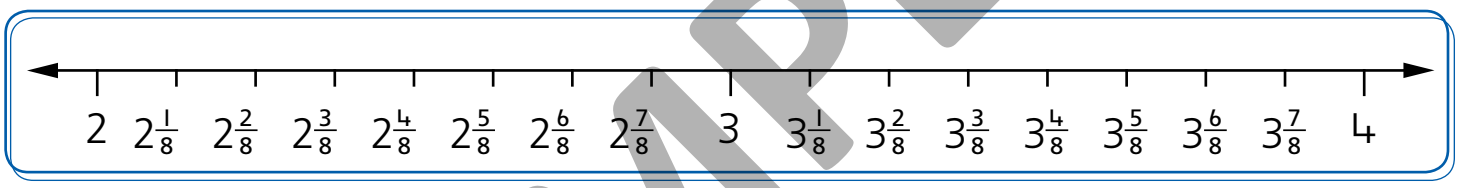
c. $\frac{3}{6} + \frac{5}{6} =$

d. $\frac{5}{6} + \frac{4}{6} =$

e. $1\frac{1}{6} + \frac{3}{6} =$

f. $\frac{2}{6} + 1\frac{3}{6} =$

2. Use this number line to help you write the answers.



a. $2\frac{3}{8} + \frac{2}{8} =$

b. $2\frac{5}{8} + \frac{4}{8} =$

c. $\frac{7}{8} + 2\frac{3}{8} =$

d. $2\frac{1}{8} + 1\frac{2}{8} =$

e. $1\frac{3}{8} + 2\frac{3}{8} =$

f. $2\frac{2}{8} + 1\frac{2}{8} =$

3. Write the answers to these.

a. $3\frac{2}{8} + \frac{5}{8} =$

b. $5\frac{4}{5} + \frac{4}{5} =$

c. $4\frac{6}{8} + \frac{7}{8} =$

d. $1\frac{4}{8} + 1\frac{2}{8} =$

e. $1\frac{6}{8} + 1\frac{4}{8} =$

f. $1\frac{7}{8} + 1\frac{7}{8} =$

g. $2\frac{1}{5} + 2\frac{3}{5} =$

h. $2\frac{4}{5} + 2\frac{1}{5} =$

i. $1\frac{2}{5} + 2\frac{4}{5} =$

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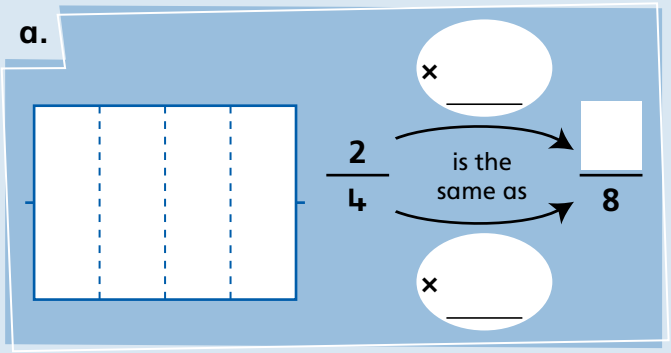
Calculate these: a. $1\frac{2}{4} + 3\frac{3}{4}$ b. $1\frac{6}{10} + 2\frac{5}{10}$

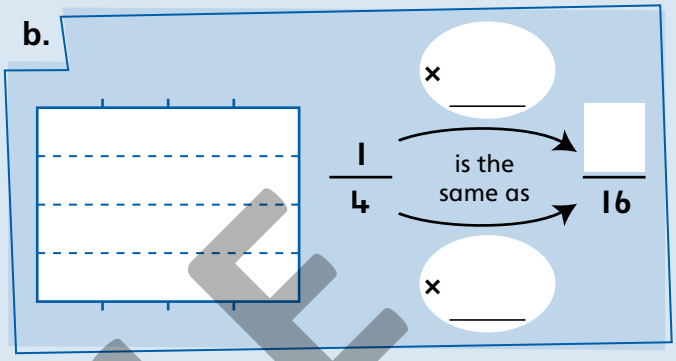
Reviewing Equivalency

1. For each oblong
- shade a part or parts to show the first fraction
- draw lines between the notches to show the second fraction
- write the missing numbers

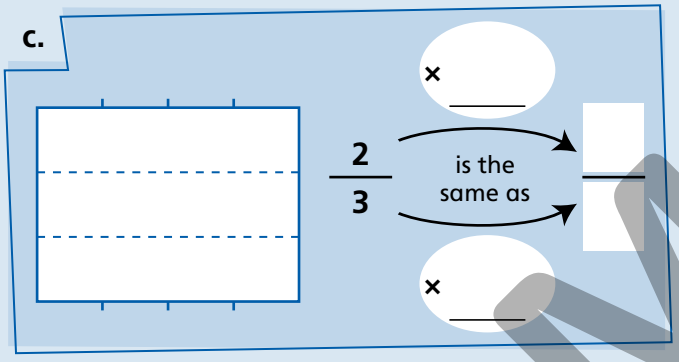
a.



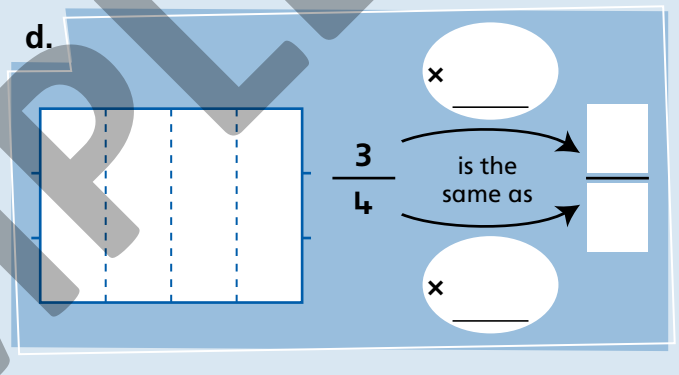
b.



c.



d.



2. Complete each of these.

a. $\frac{1}{4} = \frac{\square}{8}$

b. $\frac{1}{3} = \frac{\square}{6}$

c. $\frac{2}{8} = \frac{\square}{16}$

d. $\frac{3}{4} = \frac{\square}{16}$

e. $\frac{2}{3} = \frac{\square}{6}$

f. $\frac{1}{2} = \frac{\square}{16}$

g. $\frac{3}{4} = \frac{\square}{8}$

h. $\frac{1}{3} = \frac{\square}{12}$

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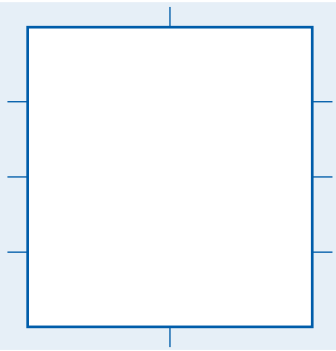
FF Write some common fractions that are equivalent to $\frac{8}{16}$.

Adding Fractions – Related Denominators

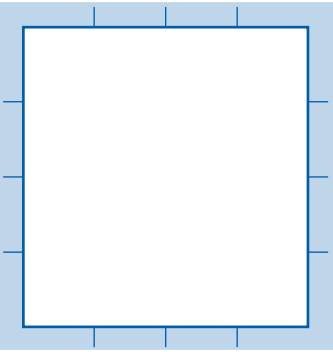
Use the grid to help you rewrite the number sentence. Then write the answer.

a. $\frac{1}{2} + \frac{2}{8} =$ _____



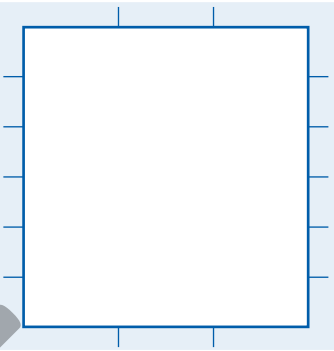
_____ + _____ = _____

b. $\frac{1}{4} + \frac{3}{8} =$ _____



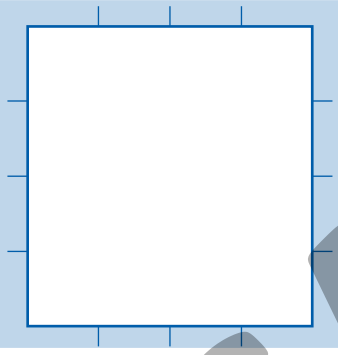
_____ + _____ = _____

c. $\frac{1}{3} + \frac{1}{6} =$ _____



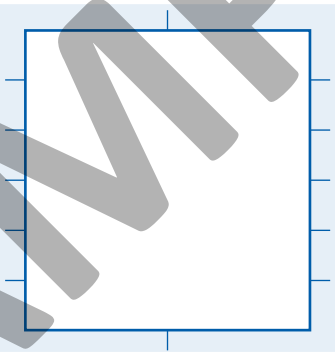
_____ + _____ = _____

d. $\frac{3}{16} + \frac{3}{8} =$ _____



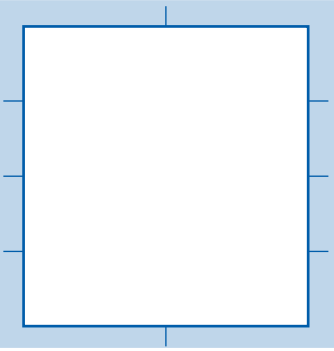
_____ + _____ = _____

e. $\frac{1}{3} + \frac{3}{12} =$ _____



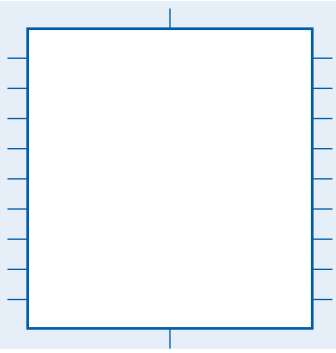
_____ + _____ = _____

f. $\frac{1}{2} + \frac{1}{8} =$ _____



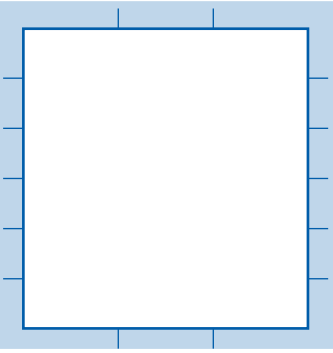
_____ + _____ = _____

g. $\frac{7}{10} + \frac{1}{5} =$ _____



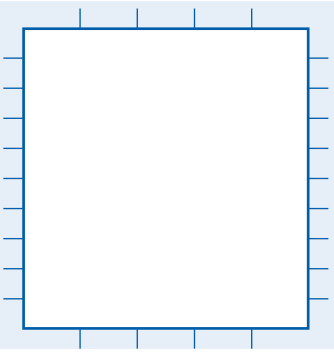
_____ + _____ = _____

h. $\frac{2}{6} + \frac{1}{3} =$ _____



_____ + _____ = _____

i. $\frac{2}{5} + \frac{3}{10} =$ _____



_____ + _____ = _____

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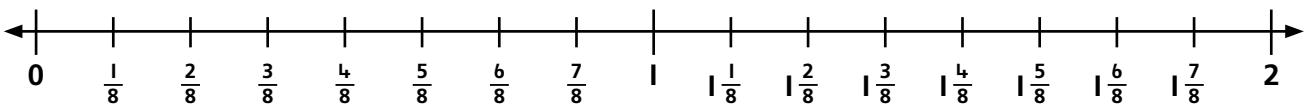
Imagine you had to change $\frac{1}{4}$. What fraction can you change it to?

Adding Mixed Numerals – Related Denominators

1. Use this number line to help you write the answers.
You can write the fractions above the line to help.



a. $1\frac{1}{8} + \frac{1}{4}$

___ + ___ = ___

b. $\frac{5}{8} + 1\frac{1}{4}$

___ + ___ = ___

c. $\frac{3}{4} + \frac{3}{8}$

___ + ___ = ___

d. $1\frac{2}{8} + \frac{1}{4}$

___ + ___ = ___

e. $1\frac{3}{4} + \frac{1}{8}$

___ + ___ = ___

f. $\frac{1}{4} + 1\frac{7}{8}$

___ + ___ = ___

2. Use this number line to help you write the answers.

a. $1\frac{5}{6} + \frac{5}{6}$

___ + ___ = ___

b. $\frac{2}{3} + 2\frac{5}{6}$

___ + ___ = ___

c. $1\frac{2}{3} + 1\frac{1}{6}$

___ + ___ = ___

d. $1\frac{1}{3} + \frac{5}{6}$

___ + ___ = ___

e. $2\frac{1}{6} + \frac{1}{3}$

___ + ___ = ___

f. $1\frac{4}{6} + 1\frac{1}{3}$

___ + ___ = ___

SAMPLE

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Work out $2\frac{4}{9} + 1\frac{1}{3}$.