

EXERCISE 11

1. Estimate and then multiply.

(a)

$$\begin{array}{r} 1893 \\ \downarrow \\ 2000 \end{array} \times 4 =$$

$$\begin{array}{r} 1893 \\ \times 4 \\ \hline \end{array}$$

(b)

$$\begin{array}{r} 4036 \\ \downarrow \\ \square \end{array} \times 7 =$$

$$\begin{array}{r} 4036 \\ \times 7 \\ \hline \end{array}$$

(c)

$$\begin{array}{r} 5987 \\ \downarrow \\ \square \end{array} \times 8 =$$

$$\begin{array}{r} 5987 \\ \times 8 \\ \hline \end{array}$$

(d)

$$\begin{array}{r} 8195 \\ \downarrow \\ \square \end{array} \times 9 =$$

$$\begin{array}{r} 8195 \\ \times 9 \\ \hline \end{array}$$

EXERCISE 13

1. A bottle contains red beads and white beads.
The number of red beads is 3 times the number of white beads.
If there are 1875 white beads, what is the total number of beads in the bottle?

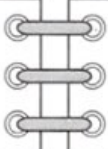
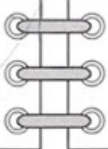
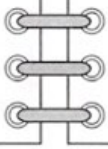
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2. The number of meat buns a baker made is 4 times the number of curry buns.
If he made 4864 meat buns, how many more meat buns than curry buns did he make?

3. David bought 2 computers at \$3569 each.
He had \$2907 left.
How much money did he have at first?

-
4. 5 people shared a sum of money.
2 of them received \$4356 each.
The others received \$3807 each.
Find the sum of money.

EXERCISE 14

1. Fill in the blanks.

A car can travel 8 km on 1 liter of gas.		It can travel _____ km on 10 liters of gas.
1 tennis racket costs \$34.		10 tennis rackets cost _____.
Justin bakes 586 buns every day.		He bakes _____ buns in 10 days.

2. Multiply.

$\begin{array}{r} 26 \\ \times 10 \\ \hline \end{array}$	$\begin{array}{r} 38 \\ \times 10 \\ \hline \end{array}$	$\begin{array}{r} 582 \\ \times 10 \\ \hline \end{array}$	$\begin{array}{r} 749 \\ \times 10 \\ \hline \end{array}$
$\begin{array}{r} 68 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 68 \\ \times 30 \\ \hline \end{array}$	$\begin{array}{r} 40 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 40 \\ \times 50 \\ \hline \end{array}$
$\begin{array}{r} 436 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 436 \\ \times 40 \\ \hline \end{array}$	$\begin{array}{r} 670 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 670 \\ \times 80 \\ \hline \end{array}$

EXERCISE 15

1. Multiply.

(a)

$$4 \times 3 = 12$$

$$40 \times 3 =$$

$$40 \times 30 =$$

$$4 \times 30 =$$

$$\begin{array}{r} 40 \\ \times 30 \\ \hline \end{array}$$

$$400 \times 3 =$$

$$400 \times 30 =$$

$$\begin{array}{r} 400 \\ \times 30 \\ \hline \end{array}$$

$$4 \times 300 =$$

$$40 \times 300 =$$

$$\begin{array}{r} 300 \\ \times 40 \\ \hline \end{array}$$

(b)

$$6 \times 5 =$$

$$60 \times 5 =$$

$$60 \times 50 =$$

$$6 \times 50 =$$

$$\begin{array}{r} 60 \\ \times 50 \\ \hline \end{array}$$

$$600 \times 5 =$$

$$600 \times 50 =$$

$$\begin{array}{r} 600 \\ \times 50 \\ \hline \end{array}$$

$$6 \times 500 =$$

$$60 \times 500 =$$

$$\begin{array}{r} 500 \\ \times 60 \\ \hline \end{array}$$

2. Estimate and then multiply.

(a)

$$\begin{array}{r} 52 \\ \downarrow \\ 50 \end{array} \times \begin{array}{r} 39 \\ \downarrow \\ 40 \end{array} = \begin{array}{r} 52 \\ \times 39 \\ \hline \end{array}$$

(b)

$$\begin{array}{r} 78 \\ \downarrow \\ \boxed{} \end{array} \times \begin{array}{r} 33 \\ \downarrow \\ \boxed{} \end{array} = \begin{array}{r} 78 \\ \times 33 \\ \hline \end{array}$$

(c)

$$\begin{array}{r} 29 \\ \downarrow \\ \boxed{} \end{array} \times \begin{array}{r} 87 \\ \downarrow \\ \boxed{} \end{array} = \begin{array}{r} 29 \\ \times 87 \\ \hline \end{array}$$

(d)

$$\begin{array}{r} 92 \\ \downarrow \\ \boxed{} \end{array} \times \begin{array}{r} 71 \\ \downarrow \\ \boxed{} \end{array} = \begin{array}{r} 92 \\ \times 71 \\ \hline \end{array}$$

3. Estimate and then multiply.

(a)

$$\begin{array}{r} 218 \\ \downarrow \\ 200 \end{array} \times \begin{array}{r} 37 \\ \downarrow \\ 40 \end{array} =$$

$$\begin{array}{r} 218 \\ \times 37 \\ \hline \end{array}$$

(b)

$$\begin{array}{r} 483 \\ \downarrow \\ \boxed{} \end{array} \times \begin{array}{r} 59 \\ \downarrow \\ \boxed{} \end{array} =$$

$$\begin{array}{r} 483 \\ \times 59 \\ \hline \end{array}$$

(c)

$$\begin{array}{r} 372 \\ \downarrow \\ \boxed{} \end{array} \times \begin{array}{r} 64 \\ \downarrow \\ \boxed{} \end{array} =$$

$$\begin{array}{r} 372 \\ \times 64 \\ \hline \end{array}$$

(d)

$$\begin{array}{r} 648 \\ \downarrow \\ \boxed{} \end{array} \times \begin{array}{r} 78 \\ \downarrow \\ \boxed{} \end{array} =$$

$$\begin{array}{r} 648 \\ \times 78 \\ \hline \end{array}$$

EXERCISE 16

- Multiply and use the answers to complete the cross-number puzzle below.

ACROSS

B	D	F	G
$\begin{array}{r} 21 \\ \times 13 \\ \hline \end{array}$	$\begin{array}{r} 17 \\ \times 39 \\ \hline \end{array}$	$\begin{array}{r} 37 \\ \times 24 \\ \hline \end{array}$	$\begin{array}{r} 82 \\ \times 80 \\ \hline \end{array}$

DOWN

A	B	C	E
$\begin{array}{r} 28 \\ \times 31 \\ \hline \end{array}$	$\begin{array}{r} 53 \\ \times 45 \\ \hline \end{array}$	$\begin{array}{r} 59 \\ \times 60 \\ \hline \end{array}$	$\begin{array}{r} 49 \\ \times 14 \\ \hline \end{array}$

A		B	2	7	C	3
	D	E				
	F					
		G				

2. Multiply and use the answers to complete the cross-number puzzle.

ACROSS

A $\begin{array}{r} 118 \\ \times 23 \\ \hline \end{array}$	C $\begin{array}{r} 249 \\ \times 31 \\ \hline \end{array}$	D $\begin{array}{r} 329 \\ \times 18 \\ \hline \end{array}$
F $\begin{array}{r} 167 \\ \times 17 \\ \hline \end{array}$	H $\begin{array}{r} 138 \\ \times 11 \\ \hline \end{array}$	J $\begin{array}{r} 249 \\ \times 25 \\ \hline \end{array}$

DOWN

A $\begin{array}{r} 895 \\ \times 31 \\ \hline \end{array}$	B $\begin{array}{r} 676 \\ \times 62 \\ \hline \end{array}$	E $\begin{array}{r} 346 \\ \times 28 \\ \hline \end{array}$
F $\begin{array}{r} 406 \\ \times 53 \\ \hline \end{array}$	G $\begin{array}{r} 119 \\ \times 29 \\ \hline \end{array}$	I $\begin{array}{r} 135 \\ \times 65 \\ \hline \end{array}$

A			B
C			
D	E		
F		G	
H			I
J			

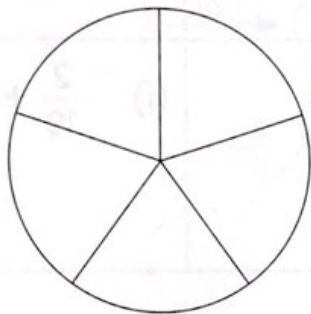
EXERCISE 17

1. Color each figure to show the given fractions. Then add the fractions.

(a)

$\frac{2}{5}$ red

$\frac{1}{5}$ yellow

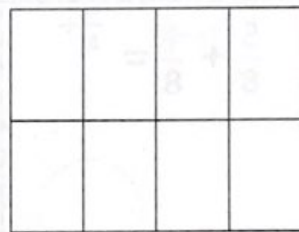


$$\frac{2}{5} + \frac{1}{5} =$$

(b)

$\frac{2}{8}$ blue

$\frac{5}{8}$ green

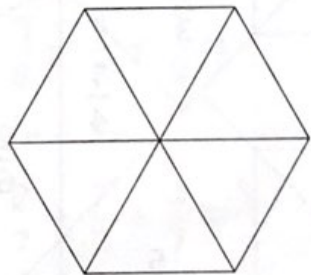


$$\frac{2}{8} + \frac{5}{8} =$$

(c)

$\frac{3}{6}$ red

$\frac{2}{6}$ blue



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

(d)

$\frac{4}{10}$ yellow

$\frac{3}{10}$ red



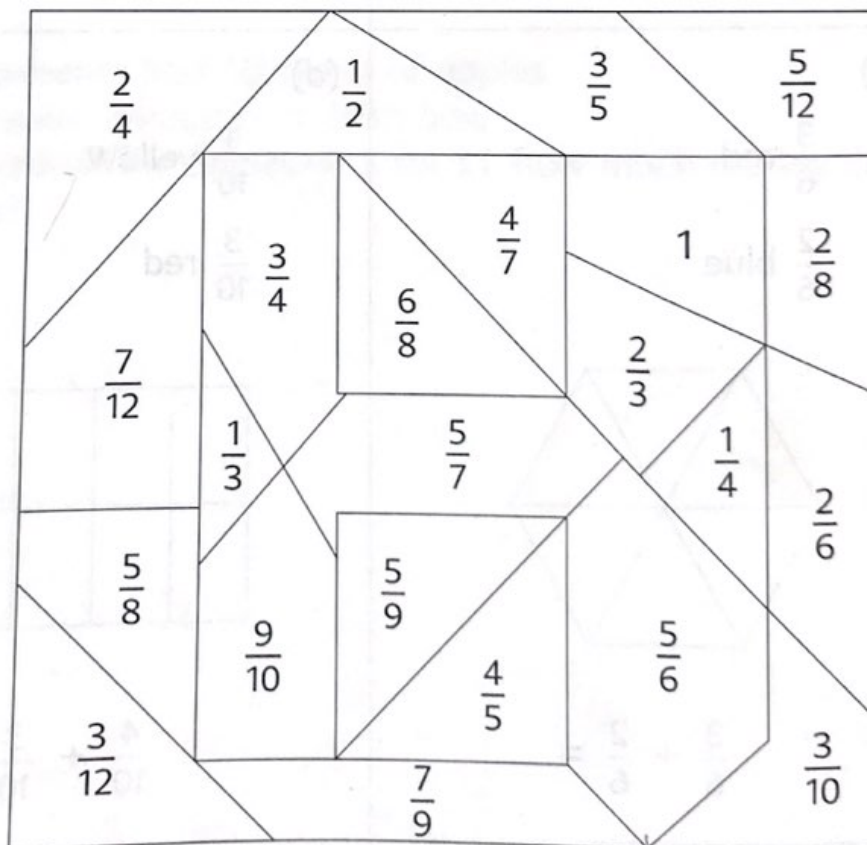
$$\frac{4}{10} + \frac{3}{10} =$$

2. Add. Write the answers in simplest form.

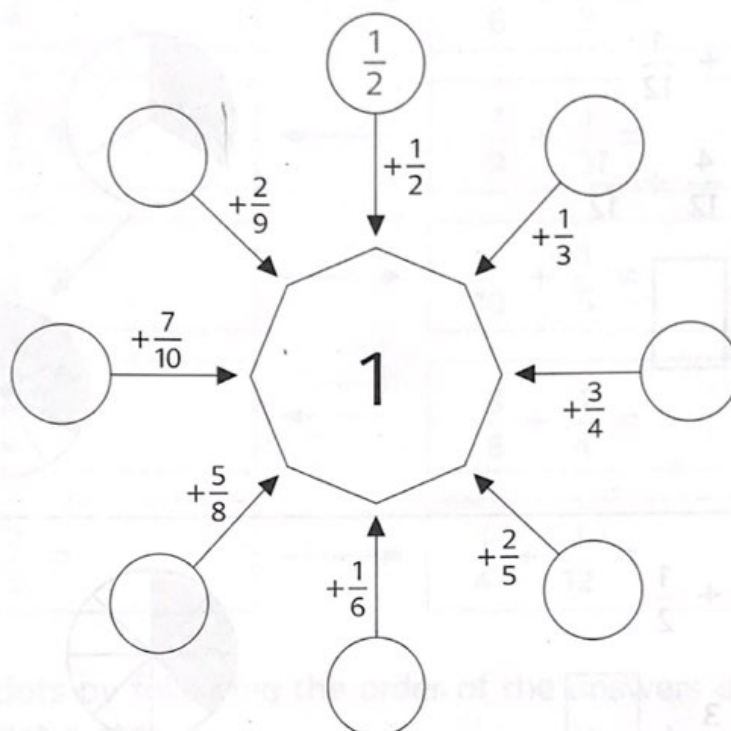
(a) $\frac{1}{2} + \frac{1}{2} =$	(b) $\frac{1}{4} + \frac{1}{4} =$	(c) $\frac{1}{3} + \frac{1}{3} =$
(d) $\frac{1}{5} + \frac{2}{5} =$	(e) $\frac{3}{6} + \frac{2}{6} =$	(f) $\frac{1}{7} + \frac{4}{7} =$
(g) $\frac{5}{8} + \frac{1}{8} =$	(h) $\frac{2}{9} + \frac{5}{9} =$	(i) $\frac{2}{10} + \frac{7}{10} =$

How many legs does a spider have?

Color the spaces which contain the answers to find out.



3. Write the missing number in each \bigcirc .



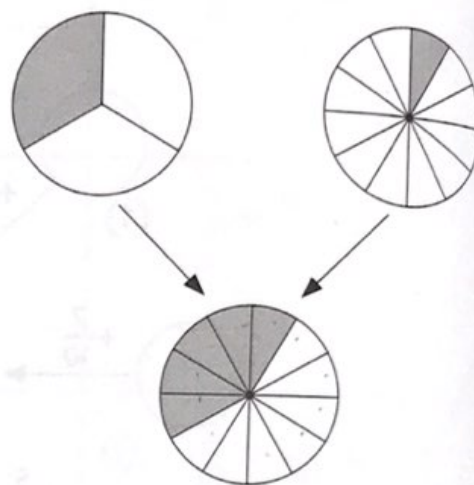
4. Add. Write the answers in simplest form.

(a) $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} =$	(b) $\frac{1}{5} + \frac{3}{5} + \frac{1}{5} =$
(c) $\frac{3}{8} + \frac{1}{8} + \frac{1}{8} =$	(d) $\frac{1}{9} + \frac{2}{9} + \frac{4}{9} =$
(e) $\frac{2}{7} + \frac{2}{7} + \frac{2}{7} =$	(f) $\frac{5}{9} + \frac{2}{9} + \frac{2}{9} =$
(g) $\frac{3}{10} + \frac{2}{10} + \frac{1}{10} =$	(h) $\frac{5}{12} + \frac{1}{12} + \frac{3}{12} =$

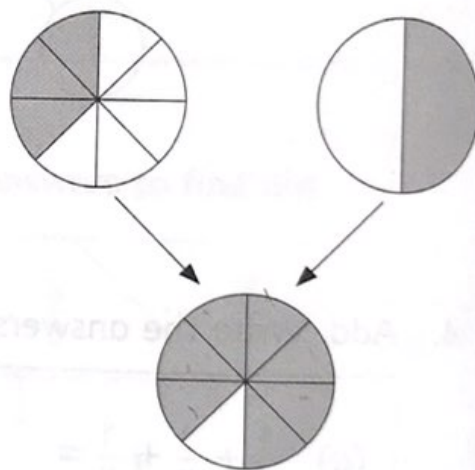
EXERCISE 18

1. Write the missing numbers.

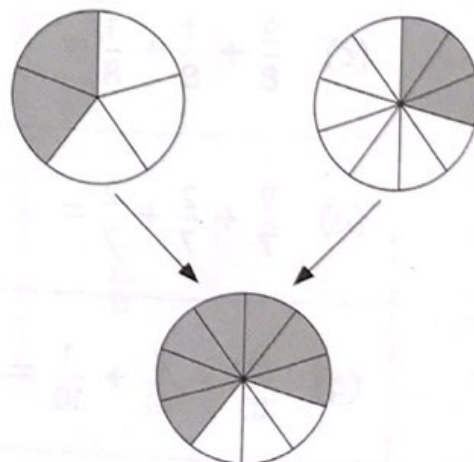
$$\begin{aligned} \text{(a)} \quad & \frac{1}{3} + \frac{1}{12} \\ &= \frac{4}{12} + \frac{1}{12} \\ &= \boxed{} \end{aligned}$$



$$\begin{aligned} \text{(b)} \quad & \frac{3}{8} + \frac{1}{2} \\ &= \frac{3}{8} + \boxed{} \\ &= \boxed{} \end{aligned}$$



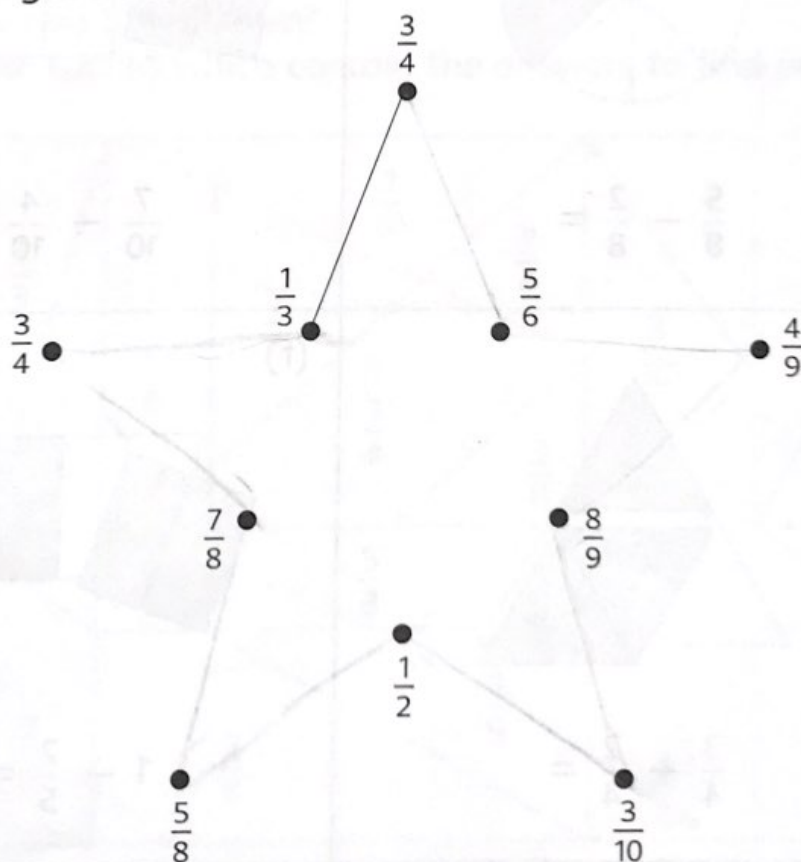
$$\begin{aligned} \text{(c)} \quad & \frac{2}{5} + \frac{3}{10} \\ &= \boxed{} + \frac{3}{10} \\ &= \boxed{} \end{aligned}$$



2. Add. Write the answers in simplest form.

$\frac{1}{2} + \frac{1}{4} =$	→	$\frac{1}{6} + \frac{2}{3} =$
$\frac{2}{9} + \frac{2}{3} =$	←	$\frac{1}{9} + \frac{1}{3} =$
$\frac{1}{5} + \frac{1}{10} =$	→	$\frac{3}{10} + \frac{1}{5} =$
$\frac{1}{8} + \frac{3}{4} =$	←	$\frac{3}{8} + \frac{1}{4} =$
$\frac{1}{12} + \frac{2}{3} =$	→	$\frac{1}{4} + \frac{1}{12} =$

Join the dots by following the order of the answers above.
You will get a star.



EXERCISE 19

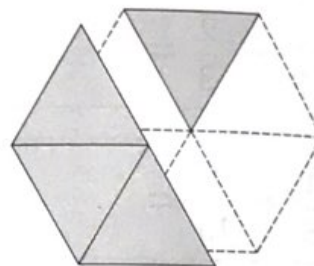
1. Subtract.

(a)



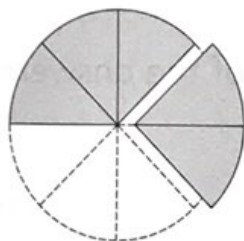
$$\frac{4}{5} - \frac{1}{5} =$$

(b)



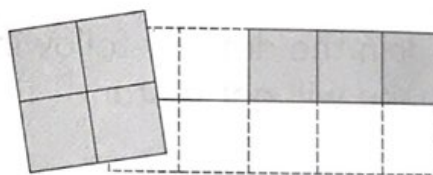
$$\frac{4}{6} - \frac{3}{6} =$$

(c)



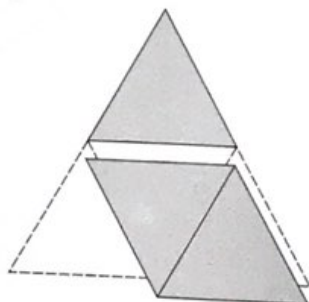
$$\frac{5}{8} - \frac{2}{8} =$$

(d)



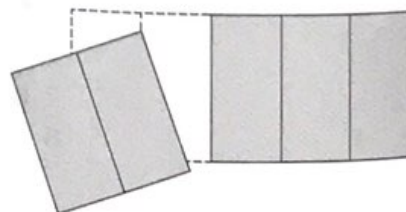
$$\frac{7}{10} - \frac{4}{10} =$$

(e)



$$\frac{3}{4} - \frac{2}{4} =$$

(f)



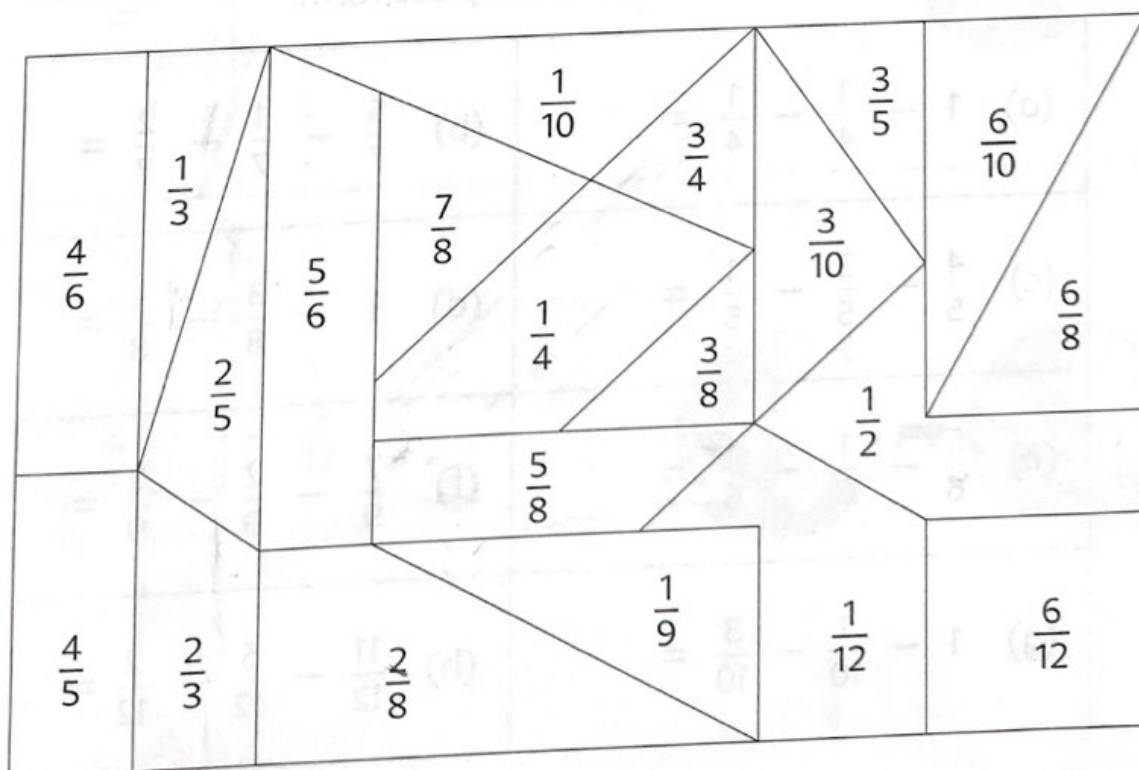
$$1 - \frac{2}{5} =$$

2. Subtract. Write the answers in simplest form.

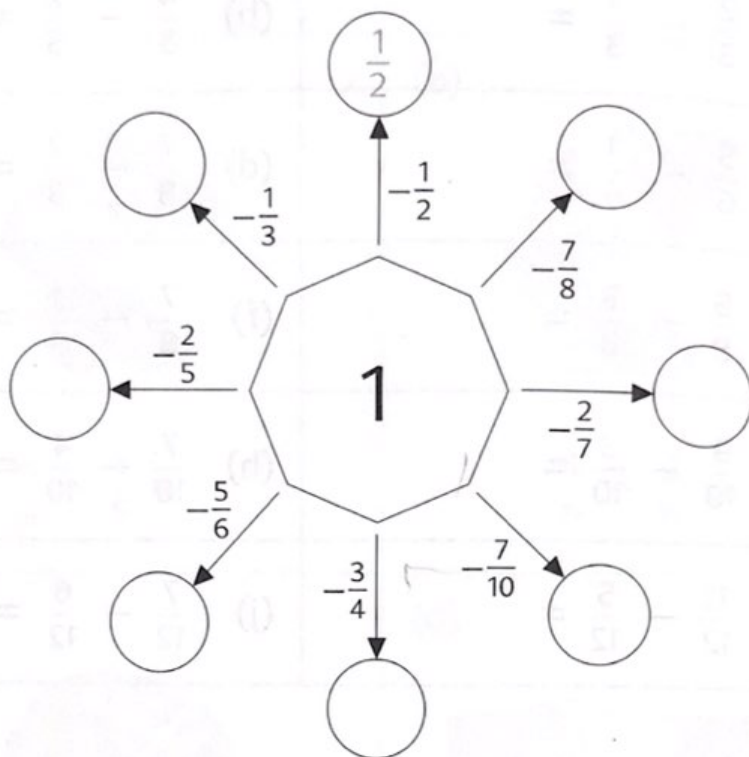
(a) $\frac{2}{3} - \frac{1}{3} =$	(b) $\frac{4}{5} - \frac{2}{5} =$
(c) $\frac{5}{6} - \frac{1}{6} =$	(d) $\frac{7}{8} - \frac{2}{8} =$
(e) $\frac{5}{8} - \frac{3}{8} =$	(f) $\frac{7}{8} - \frac{1}{8} =$
(g) $\frac{9}{10} - \frac{3}{10} =$	(h) $\frac{7}{10} - \frac{4}{10} =$
(i) $\frac{11}{12} - \frac{5}{12} =$	(j) $\frac{7}{12} - \frac{6}{12} =$

What is two times seven?

Color the spaces which contain the answers to find out.



3. Write the missing number in each \bigcirc .



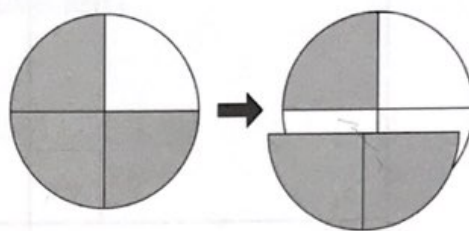
4. Subtract. Write the answers in simplest form.

(a) $1 - \frac{1}{4} - \frac{1}{4} =$	(b) $\frac{5}{7} - \frac{1}{7} - \frac{2}{7} =$
(c) $\frac{4}{5} - \frac{3}{5} - \frac{1}{5} =$	(d) $1 - \frac{3}{8} - \frac{5}{8} =$
(e) $\frac{5}{6} - \frac{1}{6} - \frac{1}{6} =$	(f) $\frac{7}{9} - \frac{2}{9} - \frac{2}{9} =$
(g) $1 - \frac{1}{10} - \frac{3}{10} =$	(h) $\frac{11}{12} - \frac{5}{12} - \frac{2}{12} =$

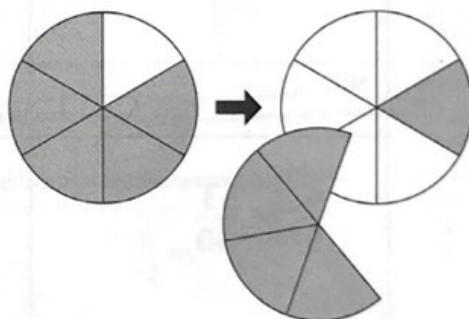
EXERCISE 20

1. Write the missing numbers.

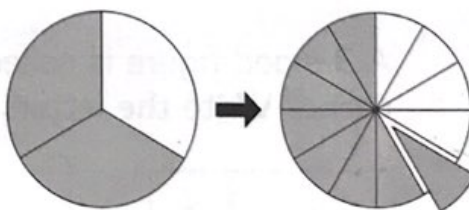
$$\begin{aligned} \text{(a)} \quad & \frac{3}{4} - \frac{1}{2} \\ &= \frac{3}{4} - \frac{2}{4} \\ &= \boxed{} \end{aligned}$$



$$\begin{aligned} \text{(b)} \quad & \frac{5}{6} - \frac{2}{3} \\ &= \frac{5}{6} - \boxed{} \\ &= \boxed{} \end{aligned}$$



$$\begin{aligned} \text{(c)} \quad & \frac{2}{3} - \frac{1}{12} \\ &= \boxed{} - \frac{1}{12} \\ &= \boxed{} \end{aligned}$$



2. Subtract. Write the answers in simplest form.

$\frac{1}{2} - \frac{1}{6}$ $=$ <div>A</div>	$\frac{3}{4} - \frac{5}{8}$ $=$ <div>D</div>	$\frac{2}{3} - \frac{2}{9}$ $=$ <div>E</div>
$\frac{3}{4} - \frac{1}{12}$ $=$ <div>I</div>	$\frac{2}{5} - \frac{1}{10}$ $=$ <div>L</div>	$\frac{5}{6} - \frac{5}{12}$ $=$ <div>Q</div>
$\frac{4}{5} - \frac{3}{10}$ $=$ <div>R</div>	$\frac{1}{2} - \frac{5}{12}$ $=$ <div>T</div>	$\frac{7}{12} - \frac{1}{3}$ $=$ <div>U</div>

A 3-sided figure is called a triangle. What is a 4-sided figure called? Write the letters which match the answers to find out.

		A					A				A	
$\frac{5}{12}$	$\frac{1}{4}$	$\frac{1}{3}$	$\frac{1}{8}$	$\frac{1}{2}$	$\frac{2}{3}$	$\frac{3}{10}$	$\frac{1}{3}$	$\frac{1}{12}$	$\frac{4}{9}$	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{3}{10}$

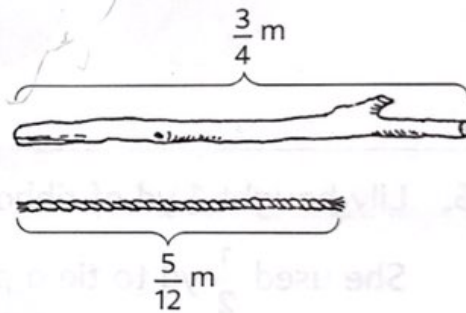
EXERCISE 21

1. Meredith bought a piece of cloth.

She used $\frac{3}{8}$ of it to make a dress.

What fraction of the cloth did she have left?

-
2. How much longer is the stick than the string?



-
3. John spent $\frac{1}{2}$ of his money on a toy car.

He spent $\frac{1}{6}$ of his money on a pen.

What fraction of his money did he spend altogether?

4. Mary drank $\frac{3}{10}$ liter of orange juice.

Jim drank $\frac{1}{5}$ liter of orange juice less than Mary.

How much orange juice did they drink altogether?

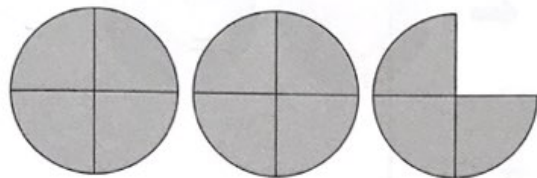
5. Lily bought 1 yd of ribbon.

She used $\frac{1}{2}$ yd to tie a package and $\frac{3}{10}$ yd to make a bow.

How much ribbon did she have left?

EXERCISE 24

1. (a) Express $\frac{11}{4}$ as a mixed number.

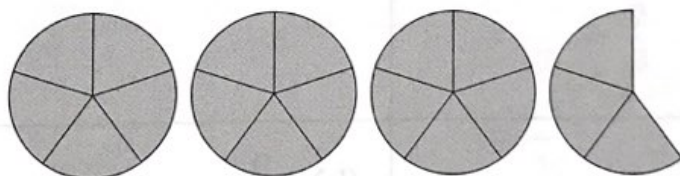


$$\frac{11}{4} = \frac{8}{4} + \frac{3}{4}$$

$$= 2 + \frac{3}{4}$$

=

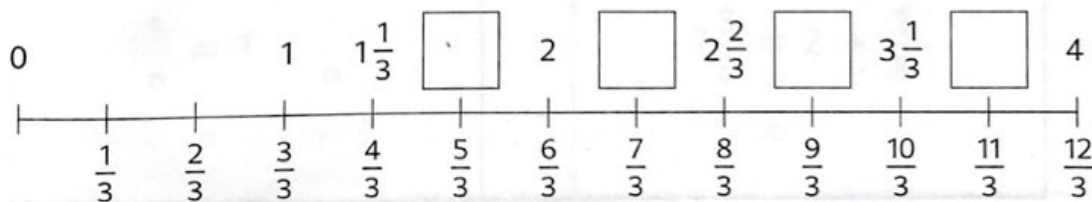
- (b) Express $\frac{18}{5}$ as a mixed number.



$$\frac{18}{5} = \frac{15}{5} + \frac{3}{5}$$

=

2. Fill in each box with a mixed number or a whole number.



3. Change each improper fraction to a mixed number or a whole number.

$$(a) \frac{5}{2} = \frac{4}{2} + \frac{1}{2}$$
$$=$$

$$(b) \frac{17}{10} = \frac{10}{10} + \frac{7}{10}$$
$$=$$

$$(c) \frac{7}{6} =$$

$$(d) \frac{7}{3} =$$

$$(e) \frac{11}{5} =$$

$$(f) \frac{9}{4} =$$

$$(g) \frac{11}{8} =$$

$$(h) \frac{9}{2} =$$

$$(i) \frac{15}{5} =$$

$$(j) \frac{12}{3} =$$