

less than 1.

$$\frac{1}{6}$$

one sixth

$$\frac{3}{4}$$

three quarters

greater than 1.

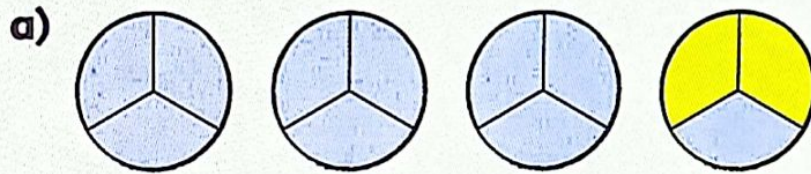
$$\frac{3}{2}$$

three halves

$$\frac{7}{4}$$

seven quarters

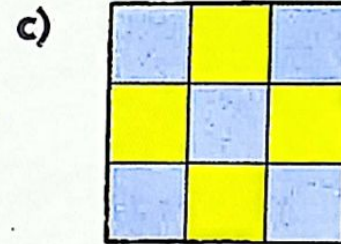
1 Write the fraction shaded blue for each of these.



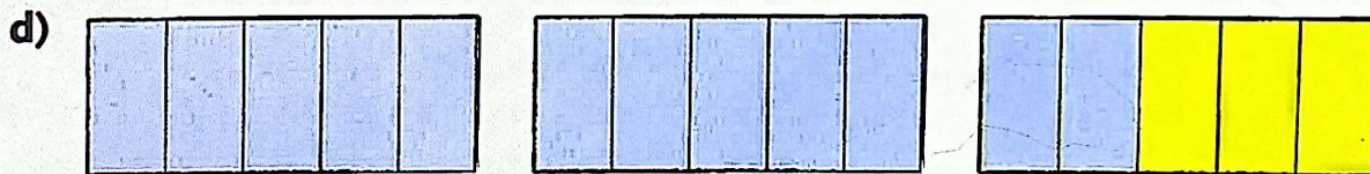
$$\frac{10}{3}$$



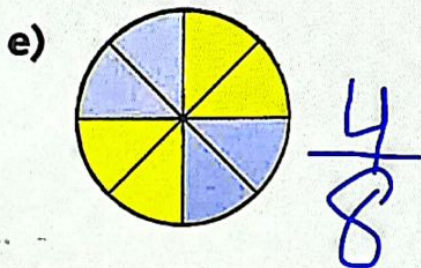
$$\frac{8}{5}$$



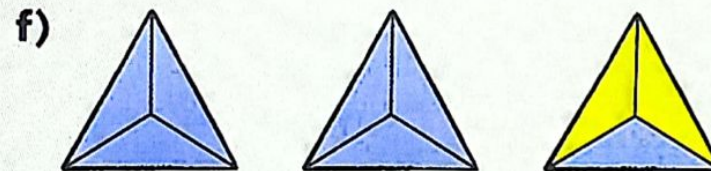
$$\frac{5}{9}$$



$$\frac{12}{5}$$

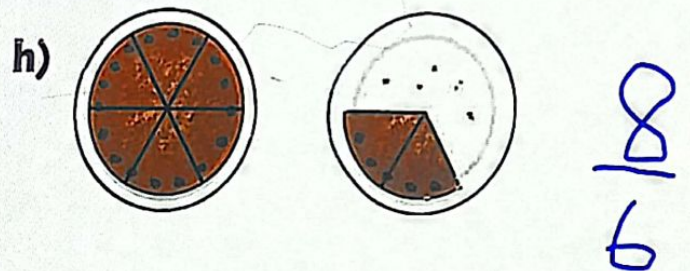
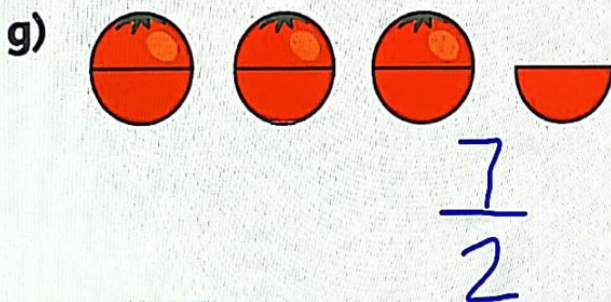
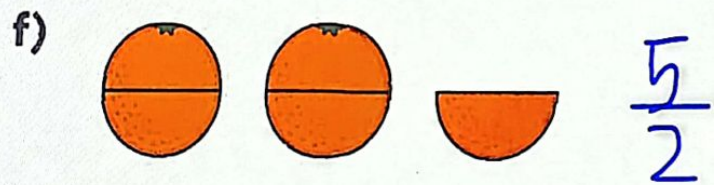
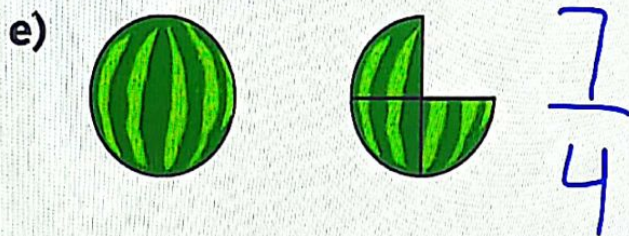
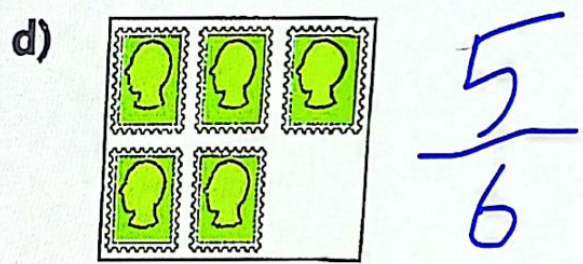
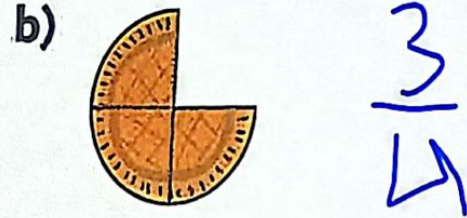
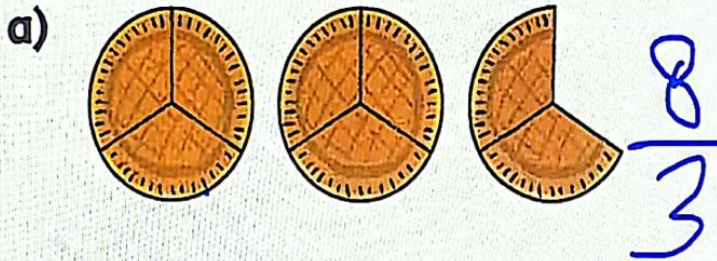


$$\frac{4}{8}$$



$$\frac{7}{3}$$

2 Write a fraction for each of these.



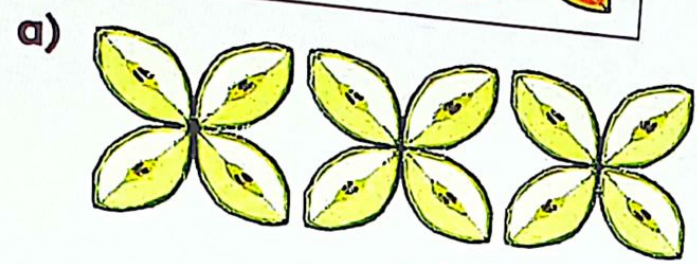
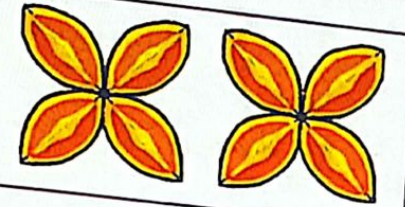
Try this

Draw a chart like this and write each fraction from questions 1 and 2 under

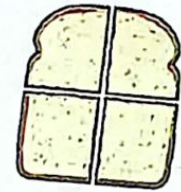
1 Write each set as whole numbers and then as fractions.

Example

$$2 = \frac{8}{4}$$



b) $\frac{12}{4} = 3$



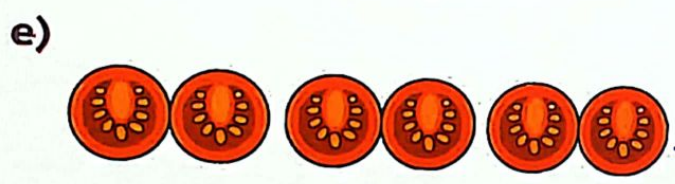
$\frac{4}{4} = 1$



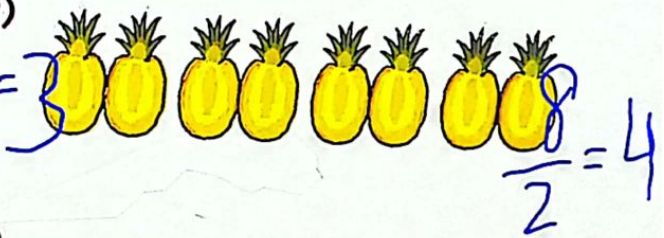
d)



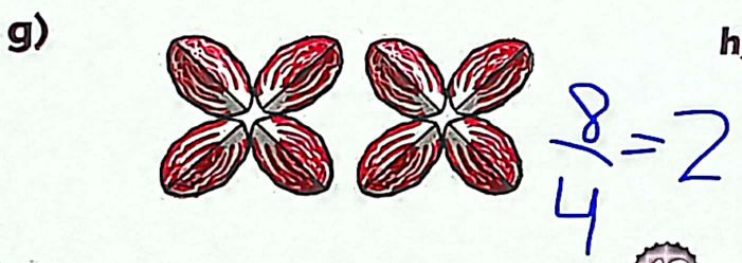
$\frac{8}{8} = 1$



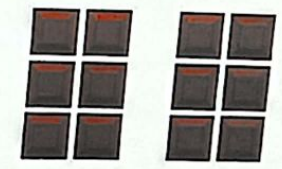
f) $\frac{6}{2} = 3$



$\frac{8}{2} = 4$



h)

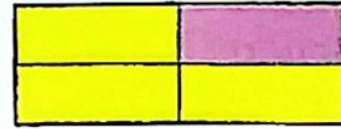
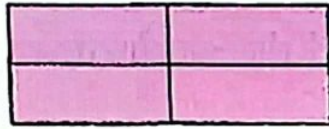


$\frac{12}{6} = 2$

2 Write these as mixed numbers and improper fractions.

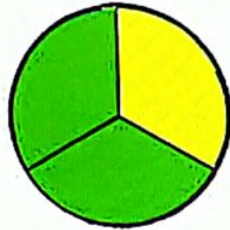
Example

$$2\frac{1}{4} = \frac{9}{4}$$



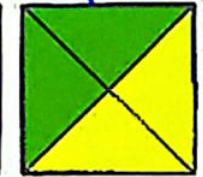
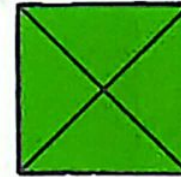
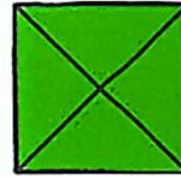
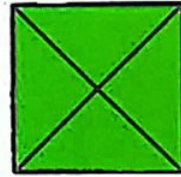
$$3\frac{2}{4} = \frac{14}{4}$$

a)



$$1\frac{2}{3} = \frac{5}{3}$$

b)

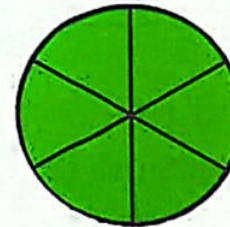
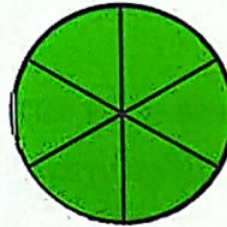


c)



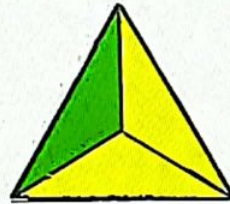
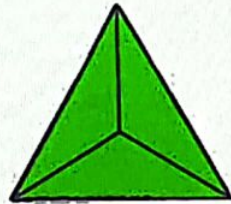
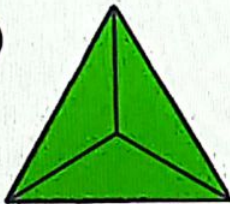
$$2\frac{2}{5} = \frac{12}{5}$$

d)

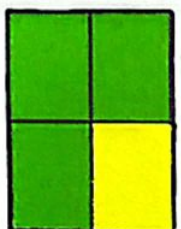
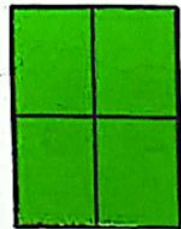
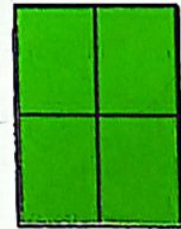


$$2\frac{1}{3} = \frac{13}{3}$$

e)



f)



3 Change these mixed numbers to improper fractions.

a) $2\frac{1}{4}$

b) $4\frac{1}{3}$

c) $1\frac{5}{8}$

d) $3\frac{3}{4}$

e) $2\frac{2}{2}$

f) $1\frac{1}{1}$

g) $2\frac{2}{2}$

h) $1\frac{5}{5}$

Grade 4 Math monthly test practice paper

Complete these multiplications. Estimate the answer first.

$$\begin{array}{r} \text{a) } \overset{\textcircled{1}}{2} \overset{\textcircled{2}}{4} \overset{\textcircled{3}}{1} \overset{\textcircled{4}}{8} \\ \times \quad \quad \quad 4 \\ \hline 9672 \end{array}$$

$$\begin{array}{r} \text{b) } \overset{\textcircled{1}}{3} \overset{\textcircled{2}}{2} \overset{\textcircled{3}}{7} \overset{\textcircled{4}}{3} \\ \times \quad \quad \quad 3 \\ \hline 9819 \end{array}$$

$$\begin{array}{r} \text{c) } \overset{\textcircled{1}}{1} \overset{\textcircled{2}}{4} \overset{\textcircled{3}}{9} \overset{\textcircled{4}}{1} \\ \times \quad \quad \quad 6 \\ \hline 8946 \end{array}$$

$$\begin{array}{r} \text{d) } \overset{\textcircled{1}}{1} \overset{\textcircled{2}}{1} \overset{\textcircled{3}}{2} \overset{\textcircled{4}}{4} \\ \times \quad \quad \quad 8 \\ \hline 8992 \end{array}$$

$$\begin{array}{r} \text{e) } \overset{\textcircled{1}}{3} \overset{\textcircled{2}}{7} \overset{\textcircled{3}}{6} \overset{\textcircled{4}}{9} \\ \times \quad \quad \quad 2 \\ \hline 7538 \end{array}$$

$$\begin{array}{r} \text{f) } \overset{\textcircled{1}}{3} \overset{\textcircled{2}}{0} \overset{\textcircled{3}}{8} \overset{\textcircled{4}}{8} \\ \times \quad \quad \quad 3 \\ \hline 9264 \end{array}$$

Answer these.

a) What is three thousand eight hundred and eighty-six multiplied by four?

b) Calculate 3939×3 .

c) A shop has 1386 pairs of shoes. How many shoes are there altogether?

d) Golf balls are sold in packs of five. How many balls will there be in 4855 packs?

e) Each week a factory produces 5648 steel rods. How many rods are produced in total in a month?

$$\begin{array}{r} \overset{\textcircled{3}}{3} \overset{\textcircled{3}}{8} \overset{\textcircled{2}}{8} \overset{\textcircled{1}}{6} \\ \times \quad \quad \quad 4 \\ \hline 15544 \end{array}$$

$$\begin{array}{r} \overset{\textcircled{1}}{4} \overset{\textcircled{2}}{8} \overset{\textcircled{3}}{5} \overset{\textcircled{4}}{5} \\ \times \quad \quad \quad 5 \\ \hline 24275 \end{array}$$

$$\begin{array}{r} \overset{\textcircled{1}}{1} \overset{\textcircled{2}}{3} \overset{\textcircled{3}}{8} \overset{\textcircled{4}}{6} \\ \times \quad \quad \quad 2 \\ \hline 2772 \end{array}$$

$$\begin{array}{r} \overset{\textcircled{4}}{5} \overset{\textcircled{3}}{6} \overset{\textcircled{2}}{4} \overset{\textcircled{1}}{8} \\ \times \quad \quad \quad 7 \\ \hline 39536 \end{array}$$

1 Multiply by 10 and write the answers.

a) $47 \times 10 = 470$ b) $64 \times 10 = 640$ c) $73 \times 10 = 730$

d) $16 \times 10 = 160$ e) $50 \times 10 = 500$ f) $96 \times 10 = 960$

2 Complete the steps to multiply each of these.

$$\begin{array}{r} 43 \\ \times 2 \\ \hline 86 \end{array}$$

a) To multiply by 20, first multiply by 2 and then multiply by 10
 $43 \times 20 = 860$

$$\begin{array}{r} 21 \\ \times 5 \\ \hline 105 \end{array}$$

b) To multiply by 50, first multiply by 5 and then multiply by 10
 $21 \times 50 = 1050$

$$\begin{array}{r} 54 \\ \times 4 \\ \hline 216 \end{array}$$

c) To multiply by 40, first multiply by 4 and then multiply by 10
 $54 \times 40 = 2160$

$$\begin{array}{r} 67 \\ \times 3 \\ \hline 201 \end{array}$$

d) To multiply by 30, first multiply by 3 and then multiply by 10
 $67 \times 30 = 2010$

c) Answer these.

a) 32×30

b) 15×50

c) 62×40

d) 28×40

e) 37×30

f) 47×50

g) 34×20

h) 62×50

a) 32

b) 15

c) $\frac{960}{10} = 960$

d) $\frac{750}{10} = 750$

e) 62

f) 28

g) $\frac{2480}{10} = 2480$

h) $\frac{1120}{10} = 1120$

i) 37

j) 37

k) $\frac{47}{5}$

l) $\frac{34}{2}$

m) $\frac{62}{5}$

n) $235 \times 10 = 2350$

o) $68 \times 10 = 680$

p) $310 \times 10 = 3100$

These function machines multiply. Complete the tables of results for the numbers coming out of each function machine.



IN	23	37	51	80	96
OUT	920	1480	2640	3200	3840



IN	18	41	65	72	90
OUT	540	1230	↓	↓	2700

a) $19 \times 76 = 1444$

x	10	9
70	700	630
6	60	54

→ 1330
→ + 114
1444

b) $84 \times 37 = 3108$

x	80	4
30	2400	120
7	560	28

①
→ 2520
→ + 588
3108

c) $28 \times 55 = 1540$

x	20	8
50	1000	400
5	100	40

→ 1400
→ + 140
1540

d) $62 \times 43 = 2666$

x	60	2
40	2400	80
3	180	6

①
→ 2480
→ + 186
2666

a) $19 \times 76 = 1444$

x	20	9
30	380	270
9	180	81

→ 380
→ + 270
650

b) $53 \times 62 = 3286$

x	60	2
50	3000	100
3	180	6

→ 1000
→ + 180
1180

c) $38 \times 46 = 1748$

x	40	6
30	1200	180
8	240	48

→ 180
→ + 240
420

$$\begin{array}{r}
 \text{d) } \overset{\textcircled{2}}{77} \\
 \times 35 \\
 \hline
 385 \\
 + 2310 \\
 \hline
 2695
 \end{array}$$

$$\begin{array}{r}
 \text{e) } \overset{\textcircled{4}}{19} \\
 \times 58 \\
 \hline
 152 \\
 + 950 \\
 \hline
 1102
 \end{array}$$

$$\begin{array}{r}
 \text{f) } \overset{\textcircled{4}}{35} \\
 \times 92 \\
 \hline
 70 \\
 + 3150 \\
 \hline
 3220
 \end{array}$$

Complete these multiplications.

$$\begin{array}{r}
 \text{a) } 324 \\
 \times 12 \\
 \hline
 648 \\
 + 3240 \\
 \hline
 3888
 \end{array}$$

$$\begin{array}{r}
 \text{b) } \overset{\textcircled{7}}{409} \\
 \times 18 \\
 \hline
 3272 \\
 + 4090 \\
 \hline
 7362
 \end{array}$$

$$\begin{array}{r}
 \text{c) } \overset{\textcircled{3}}{435} \\
 \times 19 \\
 \hline
 3915 \\
 + 4350 \\
 \hline
 8265
 \end{array}$$

$$\begin{array}{r}
 \text{d) } \overset{\textcircled{1}}{2} \overset{\textcircled{4}}{17} \\
 \times 26 \\
 \hline
 1302 \\
 + 4340 \\
 \hline
 5642
 \end{array}$$

$$\begin{array}{r}
 \text{e) } \overset{\textcircled{2}}{1} \overset{\textcircled{5}}{52} \\
 \times 25 \\
 \hline
 760 \\
 + 3040 \\
 \hline
 3800
 \end{array}$$

$$\begin{array}{r}
 \text{f) } \overset{\textcircled{2}}{2} \overset{\textcircled{4}}{36} \\
 \times 27 \\
 \hline
 1652 \\
 + 4720 \\
 \hline
 6372
 \end{array}$$

$$\begin{array}{r}
 \text{d)} \quad \overset{\textcircled{2}}{7} \overset{\textcircled{2}}{7} \\
 \times 35 \\
 \hline
 385 \\
 + 2310 \\
 \hline
 2695
 \end{array}$$

$$\begin{array}{r}
 \text{e)} \quad \overset{\textcircled{6}}{7} \overset{\textcircled{1}}{9} \\
 \times 58 \\
 \hline
 152 \\
 + 950 \\
 \hline
 1102
 \end{array}$$

$$\begin{array}{r}
 \text{f)} \quad \overset{\textcircled{4}}{3} \overset{\textcircled{1}}{5} \\
 \times 92 \\
 \hline
 70 \\
 + 3150 \\
 \hline
 3220
 \end{array}$$

Complete these multiplications.

$$\begin{array}{r}
 \text{a)} \quad 324 \\
 \times 12 \\
 \hline
 648 \\
 + 3240 \\
 \hline
 3888
 \end{array}$$

$$\begin{array}{r}
 \text{b)} \quad \overset{\textcircled{7}}{4} \overset{\textcircled{0}}{0} \overset{\textcircled{9}}{9} \\
 \times 18 \\
 \hline
 3272 \\
 + 4090 \\
 \hline
 7362
 \end{array}$$

$$\begin{array}{r}
 \text{c)} \quad \overset{\textcircled{3}}{4} \overset{\textcircled{4}}{3} \overset{\textcircled{5}}{5} \\
 \times 19 \\
 \hline
 3915 \\
 + 4350 \\
 \hline
 8265
 \end{array}$$

$$\begin{array}{r}
 \text{d)} \quad \overset{\textcircled{1}}{2} \overset{\textcircled{1}}{1} \overset{\textcircled{4}}{7} \\
 \times 26 \\
 \hline
 1302 \\
 + 4340 \\
 \hline
 5642
 \end{array}$$

$$\begin{array}{r}
 \text{e)} \quad \overset{\textcircled{2}}{1} \overset{\textcircled{5}}{5} \overset{\textcircled{2}}{2} \\
 \times 25 \\
 \hline
 760 \\
 + 3040 \\
 \hline
 3800
 \end{array}$$

$$\begin{array}{r}
 \text{f)} \quad \overset{\textcircled{2}}{2} \overset{\textcircled{3}}{3} \overset{\textcircled{6}}{6} \\
 \times 27 \\
 \hline
 1652 \\
 + 4720 \\
 \hline
 6372
 \end{array}$$

Write the numbers 2, 3, 4, 5, 6 or 9 in the correct boxes in these sentences.
Use the rules of divisibility to find the answers.

- a) 75 is divisible by and
- b) 84 is divisible by , , and
- c) 280 is divisible by , and
- d) 92 is divisible by and
- e) 117 is divisible by and
- f) 4635 is divisible by , and
- g) 432 is divisible by , , , and
- h) 9180 is divisible by , , , , and

Answer these.

a)
$$\begin{array}{r} 21 \\ 3 \overline{)63} \\ \underline{63} \\ 0 \end{array}$$

c)
$$\begin{array}{r} 22 \\ 4 \overline{)88} \\ \underline{-88} \\ 0 \end{array}$$

e)
$$\begin{array}{r} 28 \\ 3 \overline{)84} \\ \underline{-6} \\ 24 \\ \underline{-24} \\ 0 \end{array}$$

g)
$$\begin{array}{r} 126 \\ 5 \overline{)630} \\ \underline{-5} \downarrow \\ 13 \downarrow \\ \underline{10} \downarrow \\ 30 \\ \underline{30} \\ 0 \end{array}$$

b)
$$\begin{array}{r} 19 \\ 5 \overline{)95} \\ \underline{-5} \downarrow \\ 45 \\ \underline{-45} \\ 0 \end{array}$$

d)
$$\begin{array}{r} 35 \\ 2 \overline{)70} \\ \underline{-6} \\ 10 \\ \underline{10} \\ 0 \end{array}$$

f)
$$\begin{array}{r} 83 \\ 9 \overline{)747} \\ \underline{-72} \\ 27 \\ \underline{27} \\ 0 \end{array}$$

h)
$$\begin{array}{r} 106 \\ 6 \overline{)636} \\ \underline{-6} \downarrow \downarrow \\ 36 \\ \underline{-36} \\ 0 \end{array}$$

i)
$$\begin{array}{r} 134 \\ 2 \overline{) 268} \\ \underline{-268} \\ 0 \end{array}$$

1 Answer these.

a)
$$\begin{array}{r} 15 \\ 5 \overline{) 78} \\ \underline{-55} \\ 28 \\ \underline{-25} \\ 3 \end{array}, R=3$$

b)
$$\begin{array}{r} 13 \\ 7 \overline{) 93} \\ \underline{-77} \\ 23 \\ \underline{-21} \\ 2 \end{array}, R=2$$

c)
$$\begin{array}{r} 22 \\ 4 \overline{) 89} \\ \underline{-88} \\ 9 \\ \underline{-8} \\ 1 \end{array}, R=1$$

d)
$$\begin{array}{r} 16 \\ 6 \overline{) 97} \\ \underline{-66} \\ 37 \\ \underline{-36} \\ 1 \end{array}, R=1$$

e)
$$\begin{array}{r} 24 \\ 3 \overline{) 74} \\ \underline{-64} \\ 14 \\ \underline{-12} \\ 2 \end{array}, R=2$$

f)
$$\begin{array}{r} 14 \\ 6 \overline{) 85} \\ \underline{-64} \\ 25 \\ \underline{-24} \\ 1 \end{array}, R=1$$

g)
$$\begin{array}{r} 27 \\ 3 \overline{) 83} \\ \underline{-64} \\ 23 \\ \underline{-21} \\ 2 \end{array}, R=2$$

h)
$$\begin{array}{r} 9 \\ 9 \overline{) 89} \\ \underline{-81} \\ 8 \end{array}, R=8$$

j)
$$\begin{array}{r} 235 \\ 4 \overline{) 940} \\ \underline{-88} \\ 140 \\ \underline{-120} \\ 20 \\ \underline{-20} \\ 0 \end{array}$$

Find the remainder for each division and write the answer in the correct column of this chart.

Remainder 1	Remainder 2	Remainder 3
$47 \div 2 = 23 \text{ r } 1$	$34 \div 4 = 8, R=2$	$57 \div 6 = 9, R=3$
$73 \div 9 = 8, R=1$	$86 \div 4 = 21, R=2$	$75 \div 6 = 12, R=3$
$65 \div 8 = 8, R=1$	$78 \div 4 = 19, R=2$	$94 \div 7 = 13, R=3$
$47 \div 2 = 23, R=1$	$47 \div 2 = 23, R=1$	

$$\begin{array}{r} 4 \overline{) 34} \\ \underline{-32} \\ 2R \end{array}$$

$$34 \div 4$$

$$57 \div 6$$

$$73 \div 9$$

$$78 \div 4$$

$$94 \div 7$$

$$75 \div 6$$

$$86 \div 4$$

$$65 \div 8$$

$$47 \div 2$$

$$\begin{array}{r} 6 \overline{) 75} \\ \underline{-6} \\ 15 \\ \underline{-12} \\ 3R \end{array}$$

$$\begin{array}{r} 6 \overline{) 57} \\ \underline{-54} \\ 3 \end{array}$$

$$\begin{array}{r} 4 \overline{) 86} \\ \underline{-84} \\ 2 \end{array}$$

$$\begin{array}{r} 8 \overline{) 65} \\ \underline{-64} \\ 1 \end{array}$$

$$\begin{array}{r} 2 \overline{) 47} \\ \underline{-44} \\ 3 \end{array}$$

$$\begin{array}{r} 7 \overline{) 94} \\ \underline{-77} \\ 17 \\ \underline{-21} \\ 3 \end{array}$$

1 Complete these.

a) $\begin{array}{r} 4 \overline{) 183} \\ \underline{-4} \\ 16 \\ \underline{-12} \\ 4 \end{array}$ r $\boxed{3}$

$$\begin{array}{r} 4 \overline{) 183} \\ \underline{-16} \\ 23 \end{array} \quad (40 \times 4)$$

$$\begin{array}{r} 5 \overline{) 203} \\ \underline{-20} \\ 3 \end{array} \quad (5 \times 4)$$

b) $\begin{array}{r} 8 \overline{) 895} \\ \underline{-8} \\ 9 \\ \underline{-9} \\ 5 \end{array}$ r $\boxed{5}$

$$\begin{array}{r} 6 \overline{) 549} \\ \underline{-48} \\ 69 \\ \underline{-60} \\ 9 \end{array} \quad (80 \times 6)$$

$$\begin{array}{r} 9 \overline{) 545} \\ \underline{-54} \\ 5 \end{array} \quad (9 \times 6)$$

c) $\begin{array}{r} 6 \overline{) 896} \\ \underline{-6} \\ 29 \\ \underline{-24} \\ 56 \end{array}$ r $\boxed{6}$

$$\begin{array}{r} 7 \overline{) 489} \\ \underline{-42} \\ 69 \\ \underline{-63} \\ 6 \end{array} \quad (60 \times 7)$$

$$\begin{array}{r} 9 \overline{) 636} \\ \underline{-54} \\ 86 \\ \underline{-81} \\ 6 \end{array} \quad (9 \times 7)$$

d) $\begin{array}{r} 3 \overline{) 544} \\ \underline{-3} \\ 24 \\ \underline{-24} \\ 4 \end{array}$ r $\boxed{4}$

$$\begin{array}{r} 8 \overline{) 244} \\ \underline{-16} \\ 84 \\ \underline{-80} \\ 4 \end{array} \quad (30 \times 8)$$

$$\begin{array}{r} 5 \overline{) 404} \\ \underline{-40} \\ 4 \end{array} \quad (5 \times 8)$$

1 Answer these using a written method.

a) $70 \overline{) 910}$
 $\underline{-700}$
210
 $\underline{-210}$
0

b) $60 \overline{) 840}$
 $\underline{-600}$
240
 $\underline{-240}$
0

c) $30 \overline{) 870}$
 $\underline{-600}$
270
 $\underline{-270}$
0

d) $40 \overline{) 920}$
 $\underline{-800}$
120
 $\underline{-120}$
0

e) $60 \overline{) 780}$
 $\underline{-600}$
180
 $\underline{-180}$
0

f) $50 \overline{) 950}$
 $\underline{-500}$
450
 $\underline{-450}$
0

a) $40 \overline{) 930}$
 $\underline{-800}$
130
 $\underline{-120}$
10

b) $50 \overline{) 690}$
 $\underline{-500}$
190
 $\underline{-150}$
40

c) $30 \overline{) 785}$
 $\underline{-600}$
185
 $\underline{-180}$
5

d) $60 \overline{) 368}$
 $\underline{-360}$
8

e) $80 \overline{) 1259}$
 $\underline{-800}$
459
 $\underline{400}$
59 R

f) $40 \overline{) 2198}$
 $\underline{-2000}$
198
 $\underline{160}$
38

g) ~~$$\begin{array}{r} 50 \overline{) 3761} \\ - 350 \\ \hline 261 \\ - 250 \\ \hline 11 \end{array}$$~~

h)
$$\begin{array}{r} 40, R=29 \\ 70 \overline{) 2829} \\ - 280 \downarrow \\ \hline 29 \end{array}$$

i)
$$\begin{array}{r} 76, R=45 \\ 50 \overline{) 3845} \\ - 350 \\ \hline 345 \\ - 300 \\ \hline 45 \end{array}$$

9

$$\begin{array}{r} 75, R=1 \\ 50 \overline{) 3761} \\ - 350 \downarrow \\ \hline 261 \\ 250 \\ \hline 11 \end{array}$$