

Use short division to divide, including writing remainders.
Each day covers one maths topic. It should take you about 1 hour or just a little more.

Read carefully through the remainder sheets

Tackle the questions on the **Practice Sheet**.
There might be a choice of either **Mild** (easier) or **Hot** (harder)!
Check the answers.



Finding it tricky? That's OK... have a go with a grown-up at **A Bit Stuck?**



Think you've cracked it? Whizzed through the Practice Sheets?
Have a go at the **Investigation...**

Learning Remainder

Use short division to divide 3 and 4-digit numbers by 1-digit numbers, including those that leave a remainder.

Solving $547 \div 3$ using short division

Start by dividing 5 by 3.
There is one 3 in 5 and 2 left over.
So, write 1 above the line, in the 100s place.
Write the 2 left over in front of the next digit.

Now divide 24 by 3.
There are exactly eight 3s in 24.
So, write 8 above the line, in the 10s place.

Now divide 7 by 3.
There are two 3s in 7, and 1 left over.
So, write 2 above the line, in the 1s place.
There is 1 left over, so we write r 1.

The answer is **182 r 1**

A short division diagram for 547 ÷ 3. The divisor 3 is on the left, followed by a vertical line. The dividend 547 is written to the right of the line. The quotient 182 is written above the line, and the remainder r 1 is written to the right of the dividend. The steps are: 1. 5 ÷ 3 = 1 remainder 2. 2. 24 ÷ 3 = 8 remainder 0. 3. 7 ÷ 3 = 2 remainder 1.

Day 1

Use short division to divide 3 and 4-digit numbers by single-digit numbers, including those that leave a remainder.

$$1381 \div 6$$

Now let's try an example with 4 digits! Roughly how many 6s are in 1381?

$200 \times 6 = 1200$ and $300 \times 6 = 1800$.
The answer must lie between 200 and 300.

Set out the question carefully.
Leaving a space between digits for any extra digits we may need to write in.

$$6 \overline{) 1381}$$

Use short division to divide 3 and 4-digit numbers by 1-digit numbers, including those that leave a remainder.

Start with the 1000s. There are no 6s in 1 so leave a space above the 1 and move on.

Now divide 13 by 6.
There are two 6s in 13 and 1 left over.
So, write 2 above the line, in the 100s place.
Write the 1 left over in front of the next digit.

Now divide 18 by 6.
There are exactly three 6s in 18.
So, write 3 above the line, in the 10s place.

There are no 6s in 1.
Write 0 above the line in the 1s place.
There is 1 left over, so write r 1.

$$6 \overline{) 1381} \begin{matrix} 230r1 \end{matrix}$$

The answer is **230 r 1**.

Day 1

Practice Sheet Mild

Short division with remainders

1. $542 \div 4$

2. $523 \div 3$

3. $746 \div 5$

4. $638 \div 3$

5. $982 \div 4$

6. $249 \div 4$

7. $341 \div 4$

8. $283 \div 3$

9. $364 \div 5$

10. $754 \div 6$

Practice Sheet Hot

Short division with remainders

1. $5237 \div 4$

2. $8351 \div 6$

3. $8343 \div 8$

4. $2734 \div 5$

5. $9535 \div 4$

6. $2347 \div 3$

7. $1429 \div 4$

8. $1532 \div 7$

9. $4735 \div 6$

10. $5391 \div 8$

Investigation

Investigating remainders

1262

1862

1922

- Choose one of the numbers and divide it in turn by 3, 4, 5 and 6.
- Record each division, and the remainder, what do you notice?
- Now try the same with the other two numbers, what happens this time?
- How can you explain this?

Clue!

Try subtracting 2 from each of the three starting numbers and think about what you know about factors and multiples...

- Find the difference between 1862 and 1262; then between 1922 and 1862.
- Use that information to find two more numbers that will give you the same results when you divide them by 3, 4, 5 and 6.
- How can you be sure without even trying out the divisions?



Challenge

Can you find three 5-digit numbers that will also produce the same remainder when dividing by 3, 4, 5 and 6?
Try to include at least one number that doesn't begin with 6!

Use short division, expressing the remainders as fractions.
Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. Start by reading through the **Learning Reminders**.



2. Tackle the questions on the **Practice Sheet**.
There might be a choice of either **Mild** (easier) or **Hot** (harder)!
Check the answers.



3. Finding it tricky? That's OK... have a go with a grown-up at **A Bit Stuck?**



4. Think you've cracked it? Whizzed through the Practice Sheets?
Have a go at the **Investigation...**

Day 2

Use short division to divide 4-digit numbers by single-digit numbers, expressing the remainders as fractions.

$5466 \div 4$ using short division

Start by dividing 5 by 4.
There is one 4 in 5 and 1 left over.
Write 1 above the line, in the 1000s place.
Write 1 in front of the next digit.

Now divide 14 by 4.
There are three 4s in 14 and 2 left over.
Write 3 above the line, in the 100s place.
Write 2 in front of the next digit.

Now divide 26 by 4.
There are six 4s in 26 and 2 left over.
Write 6 above the line, in the 10s place.
Write 2 in front of the next digit.

Again, there are six 4s in 26.
Write 6 in the 1s place.
There are 2 left over, so write r 2.

$$\begin{array}{r} 1366 \text{ r } 2 \\ 4 \overline{) 5466} \end{array}$$

Use short division to divide 4-digit numbers by single-digit numbers, expressing the remainders as fractions.

If we want an exact answer we can
divide 2 by 4 to give $\frac{2}{4}$.
We can simplify that to $\frac{1}{2}$.

$$\begin{array}{r} 1366 \text{ r } 2 \\ 4 \overline{) 5466} \end{array}$$

The exact answer is $1366\frac{1}{2}$

Day 2

Practice Sheet Mild

More short division with remainders

1. Calculate:

$$\begin{array}{lll} 100 \times 3 & 200 \times 3 & 300 \times 3 \\ 100 \times 4 & 200 \times 4 & \\ 100 \times 5 & 200 \times 5 & \end{array}$$

2. Use your answers from above to help you with the following challenges:

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| 452 | 731 | 278 | 625 | 927 | 541 | 394 | 847 |
|-----|-----|-----|-----|-----|-----|-----|-----|

- Choose a number to divide by 3. Your answer must be between 100 and 200.
- Choose a number to divide by 3. Your answer must be between 200 and 300.
- Choose a number to divide by 4. Your answer must be between 100 and 200.
- Choose a different number to divide by 4. Your answer must be between 100 and 200.
- Choose a number to divide by 5. Your answer must be between 100 and 200.
- Choose a different number to divide by 5. Your answer must be between 100 and 200.

Challenge

Choose a number from the box that you haven't used yet. Write divisions by 3, 4 and 5 and give a range for the answers.

Practice Sheet Hot

Short division: remainders written as fractions

Calculate the EXACT answers to these divisions. Write any remainders as fractions.

- $7453 \div 3$
- $8342 \div 5$
- $2589 \div 3$
- $3801 \div 7$
- $5124 \div 6$
- $3456 \div 5$
- $8346 \div 4$
- $7621 \div 6$
- $2897 \div 3$
- $3247 \div 4$
- $6532 \div 6$
- $5214 \div 8$

Day 3

Revise short division of 4-digit numbers, expressing remainders as fractions.

Start with the 1000s. There are no 4s in 2 so leave a space above the 1000s place and move on.

Solving $2786 \div 4$ using short division

Now divide 27 by 4.
There are 6 4s in 27 and 3 left over.
Write 6 above the line, in the 100s place.
Write 3 in front of the next digit.

Now divide 38 by 4.
There are 9 4s in 38 and 2 left over.
Write 9 above the line, in the 10s place.
Write 2 in front of the next digit.

Now divide 26 by 4.
There are six 4s in 26 and 2 left over.
Write 6 above the line, in the 1s place.
There are 2 left over, so write r 2.

$$\begin{array}{r} 696 \text{ r } 2 \\ 4 \overline{) 2786} \end{array}$$

Revise short division of 4-digit numbers, expressing remainders as fractions.

$$2786 \div 4 = 696 \text{ r } 2$$

If we want an exact answer we can divide 2 by 4 to give $\frac{2}{4}$.
We can simplify that to $\frac{1}{2}$.
So $2786 \div 4 = 696\frac{1}{2}$

$$473 \div 4 = 118 \text{ r } 1$$

Here are the answers to 3 more division questions.

$$3958 \div 3 = 1319 \text{ r } 1$$

$$7975 \div 4 = 1993 \text{ r } 3$$

Now try to write these answers using fractions.

Answers

$\frac{1}{3} 1319$
 $\frac{3}{4} 1993$
 $\frac{1}{2} 696$

Practice Sheet Hot
Short division

Use short division to work out the answers to these divisions.
Write the remainders as fractions.

1. $5631 \div 5$

2. $8621 \div 4$

3. $4478 \div 3$

4. $6832 \div 6$

5. $8234 \div 7$

6. $3345 \div 4$

7. $2845 \div 3$

8. $5043 \div 3$

9. $4823 \div 5$

10. $6728 \div 8$

11. $4527 \div 6$

12. $2934 \div 7$

Practice Sheet Mild
Short division

Use short division to work out the answers to these divisions.
Write the remainders as fractions.

1. $467 \div 3$

2. $623 \div 4$

3. $277 \div 3$

4. $651 \div 8$

5. $459 \div 6$

6. $272 \div 5$

7. $5631 \div 5$

8. $8621 \div 4$

9. $4478 \div 3$

10. $6832 \div 6$

Check your understanding:

Questions

Day 3

Find:

$$581 \div 7 = \square$$

$$3456 \div 5 = \square$$

$$5400 \div 9 = \square$$

A farmer is packing eggs.

Each box holds six eggs.

The farmer has 890 eggs to pack.

How many boxes will the farmer fill?

Fill the missing boxes to give an answer with fraction remainders as follows:

$$187 \div \square = \square \frac{1}{2}$$

$$331 \div \square = \square \frac{3}{4}$$

$$\square \div 10 = \square \frac{2}{5}$$

Working out box

Day 4

Learning reminders

Convert between grams and kilograms, millilitres and litres, metres and kilometres.

1 kilogram = 1000 grams.

Remember that 'kilo' means 1000.

Check the way the grams and kilograms have been paired up.

| | |
|------|--------|
| 250g | 0.1kg |
| 700g | 0.25kg |
| 100g | 0.3kg |
| 300g | 0.7 kg |

Convert between grams and kilograms, millilitres and litres, metres and kilometres.

1 litre = 1000 millilitres.

Remember that 'milli' means 1000th.

Draw arrows to pair up the litres and millilitres.

Watch out! Don't mistake the 'l' for litres for a 1!

We have to multiply the number of litres (left-hand numbers) by 1000 to find the number of millilitres.

| | |
|-------|--------|
| 0.5 l | 800ml |
| 1.9 l | 500ml |
| 1.2 l | 1200ml |
| 0.8 l | 1900ml |

Answers

0.8 l = 800ml
1.2 l = 1200ml
1.9 l = 1900ml
0.5 l = 500ml

Day 4

Convert between grams and kilograms, millilitres and litres, metres and kilometres.

1 kilometre = 1000 metres.

Write these distances in kilometres.

1100m 2500m 800m 1250m

We have to divide each by 1000.
1100 divided by 1000 is 1.1,
so, 1100 metres is 1.1 kilometres.

Now divide the others by 1000...

Answers
1250m = 1.25km
800m = 0.8km
2500m = 2.5km
1100m = 1.1km

Practice Sheet Mild


Converting between millilitres and litres


Record the capacities of each of these bottles in litres and in millilitres, converting between each unit.


1.  1 litre


2.  800ml


3.  200ml


4.  1.5l

5.  0.5l

6.  100ml












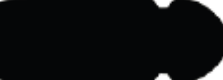
7.  0.4l

8.  600ml

9.  1900ml

Practice Sheet Hot Converting between millilitres and litres

Record the capacities of each of these bottles in litres and in millilitres, converting between each unit.

| | | |
|--|--|--|
| 1.  | 2.  | 3.  |
| 4.  | 5.  | 6.  |
| 7.  | 8.  | 9.  |
| 10.  | 11.  | 12.  |

Challenge

Write all the capacities in order, from least to greatest.

Investigations

Investigating metric conversions

Activity 1

- Cut out all of the twenty-four cards. Put aside the two blanks.
- Mix up the cards and lay them out randomly face-up in front of you.
- Pair up the cards as quickly as you can. Aim for less than 5 minutes!
- There should be two cards left over.
- Use the two blank cards to write their equivalent – kilograms for grams or grams for kilograms.
- Mix up all the cards and try to beat your time to pair them all.




Activity 2


- Sort the cards into kilograms and grams.
- Choose the grams and put the kilograms aside.
- Using your set, write the twelve weights in order in a list, from lightest to heaviest.
- Now, beside each weight, write the equivalent number of kilograms.
- Now use the kilogram cards to check that you have got them all right!

Challenge

- Create a new set of 24 cards...
- › On twelve of them write a length in kilometres.
 - › On the other twelve write the equivalent lengths in metres.
- Mix up the cards and try the activities with your new set of cards!



| | | | |
|-------|-------|-------|-------|
| 0.3kg | 4300g | 0.1kg | 0.9kg |
| 3.9kg | 700g | 2.4kg | 500g |
| 1300g | 2.1kg | 3800g | 2700g |



| | | | |
|-------|-------|-------|-------|
| 300g | 4.3kg | 100g | 900g |
| 3900g | 0.7kg | 2400g | 0.5kg |
| 1.3kg | 2700g | | |

Know some imperial units and approximate metric equivalents

Each day covers one maths topic. It should take you about 1 hour or just a little more.

Start by reading through the **Learning Reminders**.

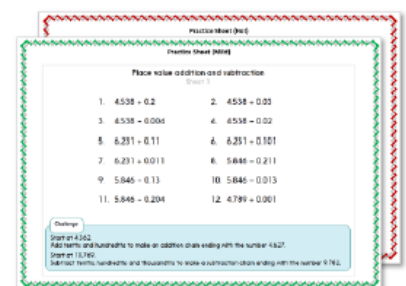


Tackle the questions on the **Practice Sheet**.

There might be a choice of either **Mild** (easier) or

Hot (harder)!

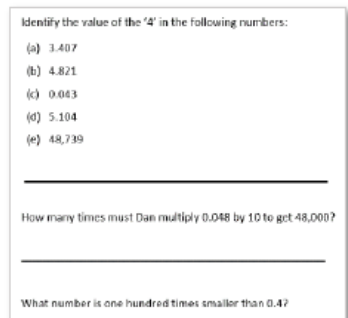
Check the answers.



Have I mastered the topic? A few questions to

Check your understanding.

Fold the page to hide the answers!



Know regularly used imperial units and approximate metric equivalents; covert between units.

Imperial units

pints **pounds** stones ounces
feet inches yards

These are some of the imperial units we still hear being used.

Some bags of crisps weigh 28 grams, a very strange number but this is because there were originally '1-ounce' packets. 28g is approximately 1 ounce.

A new born baby might weigh 7 pounds. There are 16 ounces in a pound. So that's 112 ounces (16 x 7). That's 112 bags of crisps!

Many adults will know their weight in stones and pounds rather than kilograms. There are 14 pounds in a stone. 10 kilograms is about the same as 1 stone 7 pounds. If a child weighs 40 kilograms that's around 6 stone.

Know regularly used imperial units and approximate metric equivalents; covert between units.



? 30cm is a funny number to choose for a ruler, but rulers used to be a foot long, 12 inches, about 30cm.
An inch is about an adult thumb width.



Milk used to come in pint bottles and pubs still serve drinks in pint and half-pint glasses.

Know regularly used imperial units and approximate metric equivalents; covert between units.

Distances on signs in the UK are in miles.

But in France, for example, distances on signs are in kilometres.

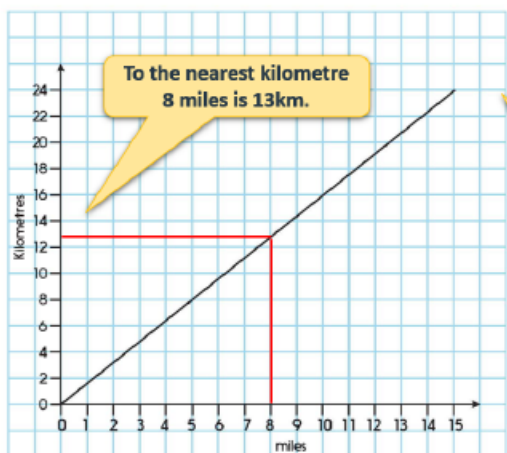
A mile is longer than a kilometre, and a good approximate rule to convert from miles to kilometres or vice versa is to remember that 5 miles is approximately 8 km.

| Miles | Kilometres |
|-------|------------|
| 10 | |
| 15 | |
| 20 | |
| 50 | |

Complete this table showing the number of kilometres.

Answers
50miles = 80km
20miles = 32km
15miles = 24km
10miles = 16km

Know regularly used imperial units and approximate metric equivalents; covert between units.



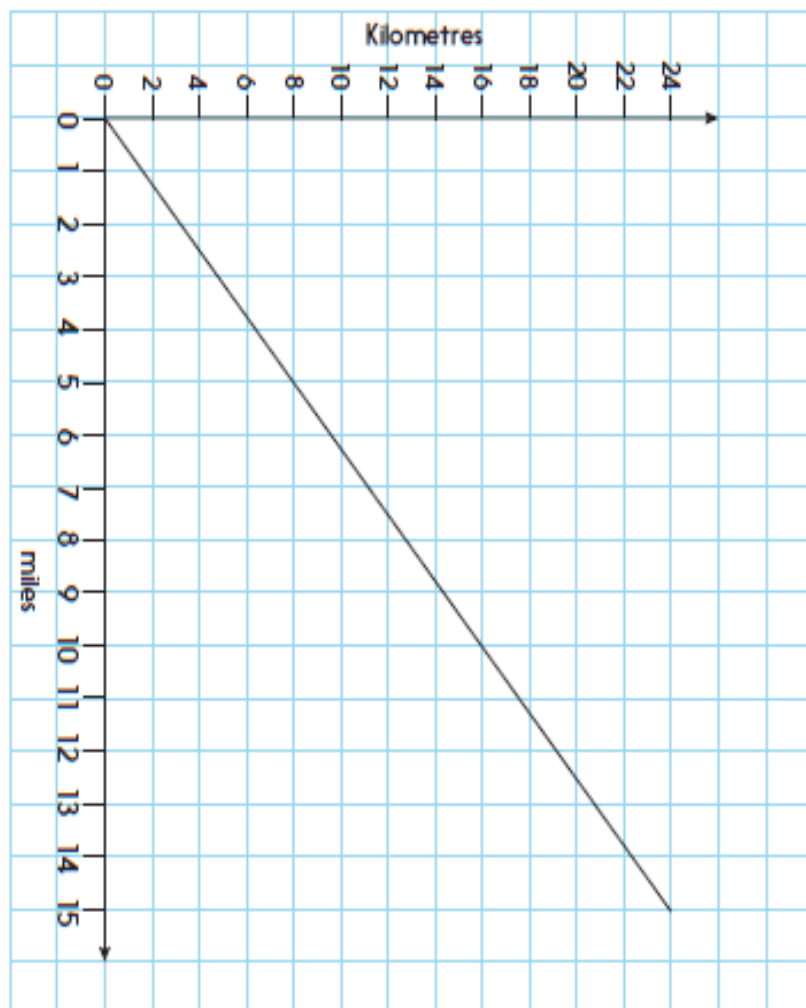
We can also use a graph to convert miles to kilometres.

For example to find 8 miles in kilometres draw a straight line up from 8 miles to where it meets the graph line, then trace across to read off the number of kilometres.

To convert kilometres to miles use the graph the other way around starting with kilometres.

Practice Sheet Mild

Converting between miles and kilometres



Use the graph to convert the following distances to the nearest kilometre.

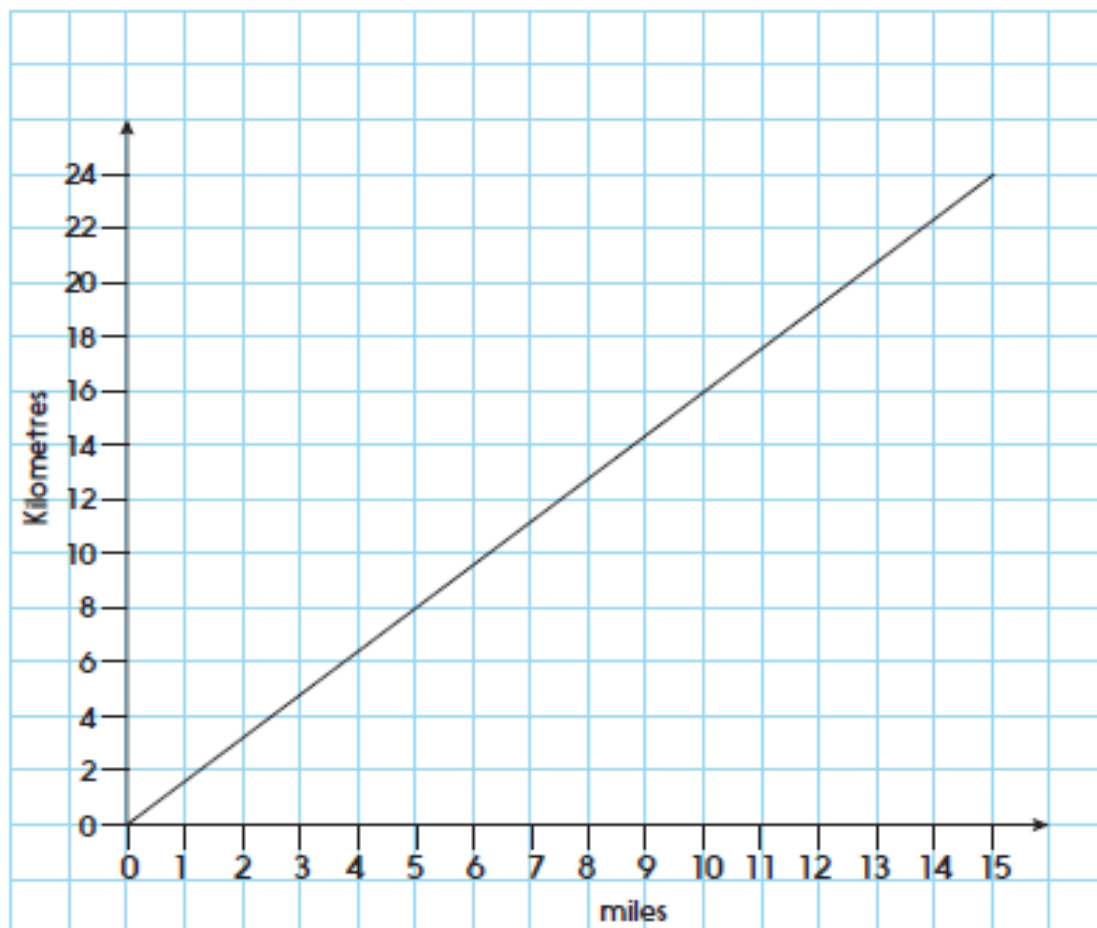
1. 5 miles
2. 10 miles
3. 2.5 miles
4. 12 miles

Use the graph to convert the following distances to the nearest mile.

5. 12 km
6. 24 km
7. 18 km
8. 7 km

Practice Sheet Hot

Converting between miles and kilometres



Use the graph to convert the following distances to the nearest kilometre.

1. 5 miles
2. 10 miles
3. 2.5 miles
4. 12 miles

Use the graph to convert the following distances to the nearest mile.

5. 12 km
6. 24 km
7. 18 km
8. 7 km

Challenge

Use your answers to estimate how many kilometres are equivalent to

1. 20 miles
2. 25 miles
3. 50 miles
4. 250 miles

Day 5

Practice Sheet Hot

Converting between centimetres and inches

Use the information in the box below to complete this 'ready reckoner'. It helps people to approximately convert their heights from feet and inches to metres and centimetres, or vice versa.

30 cm is approximately 12 inches.
 There are 12 inches in one foot.
 1 inch is approximately $2\frac{1}{2}$ cm.

Ready Reckoner

| Height in feet and inches | Height in metres and centimetres |
|---------------------------|----------------------------------|
| 5 feet | |
| | 1m 35cm |
| 5 feet 4 inches | |
| | 1m 45cm |
| 5 feet 8 inches | |
| 5 feet 10 inches | |
| | 1m 80cm |
| 6 feet 2 inches | |
| 6 feet 4 inches | |

Challenge

Measure some distances around the classroom in metres and centimetres. For example, the length and width of the room, your desk, the whiteboard. Can you convert these to feet and inches?

Answers for each day

Day 1

Practice Sheet Answers

Practice Sheet (Mild)

1. $542 \div 4 = 135 \text{ r}2$
2. $523 \div 3 = 174 \text{ r}1$
3. $746 \div 5 = 149 \text{ r}1$
4. $638 \div 3 = 212 \text{ r}2$
5. $982 \div 4 = 245 \text{ r}2$
6. $249 \div 4 = 62 \text{ r}1$
7. $341 \div 4 = 85 \text{ r}1$
8. $283 \div 3 = 94 \text{ r}1$
9. $364 \div 5 = 72 \text{ r}4$
10. $754 \div 6 = 125 \text{ r}4$

Challenge

Yes, Alys is correct. If the remainder is bigger than 5, then more groups of 6 can be made.

Practice Sheet (Hot)

1. $5237 \div 4 = 1309 \text{ r}1$
2. $8351 \div 6 = 1391 \text{ r}5$
3. $8343 \div 8 = 1042 \text{ r}7$
4. $2734 \div 5 = 546 \text{ r}4$
5. $9535 \div 4 = 2383 \text{ r}3$
6. $2347 \div 3 = 782 \text{ r}1$
7. $1429 \div 4 = 357 \text{ r}1$
8. $1532 \div 7 = 218 \text{ r}6$
9. $4735 \div 6 = 789 \text{ r}1$
10. $5391 \div 8 = 673 \text{ r}7$

Challenge

Write two different 4-digit numbers which when divided by 5 will give a remainder of 2.

e.g. $1712 \div 5 = 342 \text{ r}2$ and $2817 \div 5 = 563 \text{ r}2$

Write two different 4-digit numbers which when divided by 4 will give a remainder of 3.

e.g. $2651 \div 4 = 662 \text{ r}3$ and $3135 \div 4 = 783 \text{ r}3$

Day 2

Practice Sheet (Hot)

1. $7453 \div 3 = 2484 \frac{1}{3}$
2. $8342 \div 5 = 1668 \frac{2}{5}$
3. $2589 \div 3 = 863$
4. $3801 \div 7 = 543$
5. $5124 \div 6 = 854$
6. $3456 \div 5 = 691 \frac{1}{5}$
7. $8346 \div 4 = 2086 \frac{1}{2}$
8. $7621 \div 6 = 1270 \frac{1}{6}$
9. $2897 \div 3 = 965 \frac{2}{3}$
10. $3247 \div 4 = 811 \frac{3}{4}$
11. $6532 \div 6 = 1088 \frac{2}{3}$
12. $5214 \div 8 = 651 \frac{3}{4}$

Day 2

Practice Sheet Answers

Practice Sheet (Mild)

1. $100 \times 3 = 300$ $200 \times 3 = 600$ $300 \times 3 = 900$
 $100 \times 4 = 400$ $200 \times 4 = 800$
 $100 \times 5 = 500$ $200 \times 5 = 1000$

2.
 - a) $452 \div 3 = 150 \text{ r}2$ or $541 \div 3 = 180 \text{ r}1$ or $394 \div 3 = 131 \text{ r}1$
 - b) $731 \div 3 = 243 \text{ r}2$ or $625 \div 3 = 208 \text{ r}1$ or $847 \div 3 = 282 \text{ r}1$
 - c) $452 \div 4 = 113$ or $731 \div 4 = 182 \text{ r}3$ or $541 \div 4 = 135 \text{ r}1$
 - d) $452 \div 4 = 113$ or $731 \div 4 = 182 \text{ r}3$ or $541 \div 4 = 135 \text{ r}1$
 - e) $731 \div 5 = 146 \text{ r}1$ or $927 \div 5 = 185 \text{ r}2$ or $541 \div 5 = 108 \text{ r}1$ or $847 \div 5 = 169 \text{ r}2$
 - f) $731 \div 5 = 146 \text{ r}1$ or $927 \div 5 = 185 \text{ r}2$ or $541 \div 5 = 108 \text{ r}1$ or $847 \div 5 = 169 \text{ r}2$

Challenge

Choose a number from the box that you haven't used yet. Write divisions by 3, 4 and 5 and give a range for the answers.

e.g. $625 \div 3$ answer between 200 and 300 (just over 200)
 $625 \div 4$ answer between 100 and 200
 $625 \div 5$ answer between 100 and 200

Answer sheet 2

Day 3

Practice Sheet (Mild)

1. $467 \div 3 = 155 \frac{2}{3}$
2. $623 \div 4 = 155 \frac{3}{4}$
3. $277 \div 3 = 92 \frac{1}{3}$
4. $651 \div 8 = 81 \frac{3}{8}$
5. $459 \div 6 = 76 \frac{3}{6}$
6. $272 \div 5 = 54 \frac{2}{5}$
7. $5631 \div 5 = 1126 \frac{1}{5}$
8. $8621 \div 4 = 2155 \frac{1}{4}$
9. $4478 \div 3 = 1492 \frac{2}{3}$
10. $6832 \div 6 = 1138 \frac{4}{6}$

Practice Sheet (Hot)

1. $5631 \div 5 = 1126 \frac{1}{5}$
2. $8621 \div 4 = 2155 \frac{1}{4}$
3. $4478 \div 3 = 1492 \frac{2}{3}$
4. $6832 \div 6 = 1138 \frac{4}{6}$
5. $8234 \div 7 = 1176 \frac{2}{7}$
6. $3345 \div 4 = 836 \frac{1}{4}$
7. $2845 \div 3 = 948 \frac{1}{3}$
8. $5043 \div 3 = 1681$
9. $4823 \div 5 = 964 \frac{3}{5}$
10. $6728 \div 8 = 841$
11. $4527 \div 6 = 754 \frac{3}{6}$
12. $2934 \div 7 = 419 \frac{1}{7}$

Challenge

Write two other divisions by 6 with answers less than 1000.

e.g. $5662 \div 6 = 943 \frac{2}{3}$ and $3638 \div 6 = 603 \frac{1}{3}$

Write two other divisions by 6 with answers between 1000 and 1200.

e.g. $6404 \div 6 = 1067 \frac{1}{3}$ and $7199 \div 6 = 1199 \frac{5}{6}$

Practice Sheet Answers

Practice Sheet (Mild)

1 litre = 1000 millilitres
800 ml = 0.8 litres
200 ml = 0.2 litres
1.5 litres = 1500 millilitres
0.5 litres = 500 millilitres
100 ml = 0.1 litres
0.4 litres = 400 millilitres
600 ml = 0.6 litres

Practice Sheet (Hot)

1 litre = 1000 millilitres
800 ml = 0.8 litres
200 ml = 0.2 litres
1.5 litres = 1500 millilitres
0.5 litres = 500 millilitres
100 ml = 0.1 litres
0.4 litres = 400 millilitres
600 ml = 0.6 litres
1900 ml = 1.9 litres
1.8 litres = 1800 millilitres
1.2 litres = 1200 millilitres
2 litres = 2000 millilitres

Challenge: The correct order is: 100 ml, 200 ml, 0.4 litres, 0.5 litres, 600 ml, 800 ml, 1 litre, 1.2 litres, 1.5 litres, 1.8 litres, 1900 ml, 2 litres

Practice Sheet (Mild)

1. 5 miles = 8 km
2. 10 miles = 16 km
3. 2.5 miles = 4 km
4. 12 miles = 19 km
5. 12 km = 7.5 miles
6. 24 km = 15 miles
7. 18 km = 11 miles
8. 7 km = 4 miles

Practice Sheet (Hot)

As above plus challenge

Challenge:

1. 20 miles = 32 km
2. 25 miles = 40 km
3. 50 miles = 80 km
4. 250 miles = 400 km

Day 5

| Height in feet and inches | Height in metres and centimetres |
|---------------------------|----------------------------------|
| 5 feet | 1 m 50 cm |
| 4 feet 6 inches | 1 m 35cm |
| 5 feet 4 inches | 1 m 60 cm |
| 4 feet 10 inches | 1 m 45cm |
| 5 feet 8 inches | 1 m 70 cm |
| 5 feet 10 inches | 1 m 75 cm |
| 6 feet | 1m 80cm |
| 6 feet 2 inches | 1 m 85 cm |
| 6 feet 4 inches | 1 m 90 cm |

Problem solving and reasoning:

Answers

True or false

- $1050\text{g} = 1.5\text{Kg}$ False since it would be 1.05kg; 1.5kg would be 1500g.
- 1 pint is about 1.5 litres False it is just over half a litre.
- 4 ounces is a bit more than 100g True since 1 ounce is approximately 28g.
- $2.5\text{ inches} = 1\text{ cm}$ False – the conversion is the other way around: 1 inch is approximately 2.5cm.
- 1 metre is a bit bigger than a yard True.

If we assume 3 miles = 5 kilometres, write the missing numbers:

50 km = 30 miles

35km = 21 miles

1.5 miles = 2.5km

What imperial unit would be used to measure...

- (i) The length of a large dog, nose to tail? feet and inches.
- (ii) The weight of a child's lunch box? pounds / ounces.
- (iii) The capacity of a baby bath? pints / gallons.