

Introduction

In this section, you will find literacy activities relating to

- the names and uses of commonly-used woodwork tools;
- instructions for making a serving tray;
- instructions for fitting a butt hinge;
- linear measurement (metric): estimating and measuring.

Key words include:

claw	pencil	folding rule
hammer	marking gauge	measuring tape
mallet	screwdriver	measurement
tools	bradawl	metric
face	ruler	rod
sleeve	try square	protected
head	tenon saw	space
nails	assemble	hardwood
chisel	discuss	released
steel	adhesive	available
rubber	select	lock
wood	complete	centimetre
beech	tasks	millimetre
handle	select	estimate

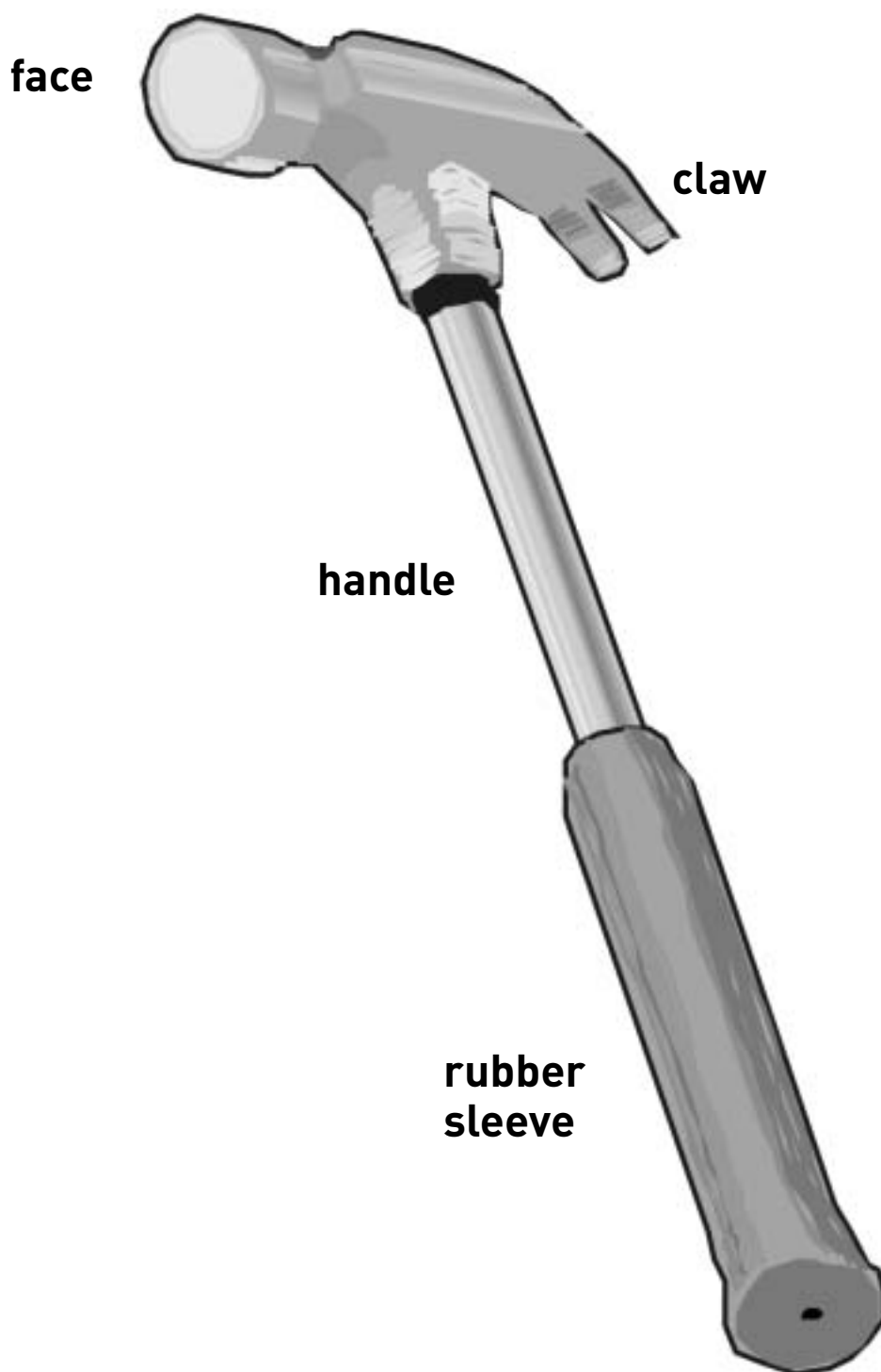
This section is based on materials by:

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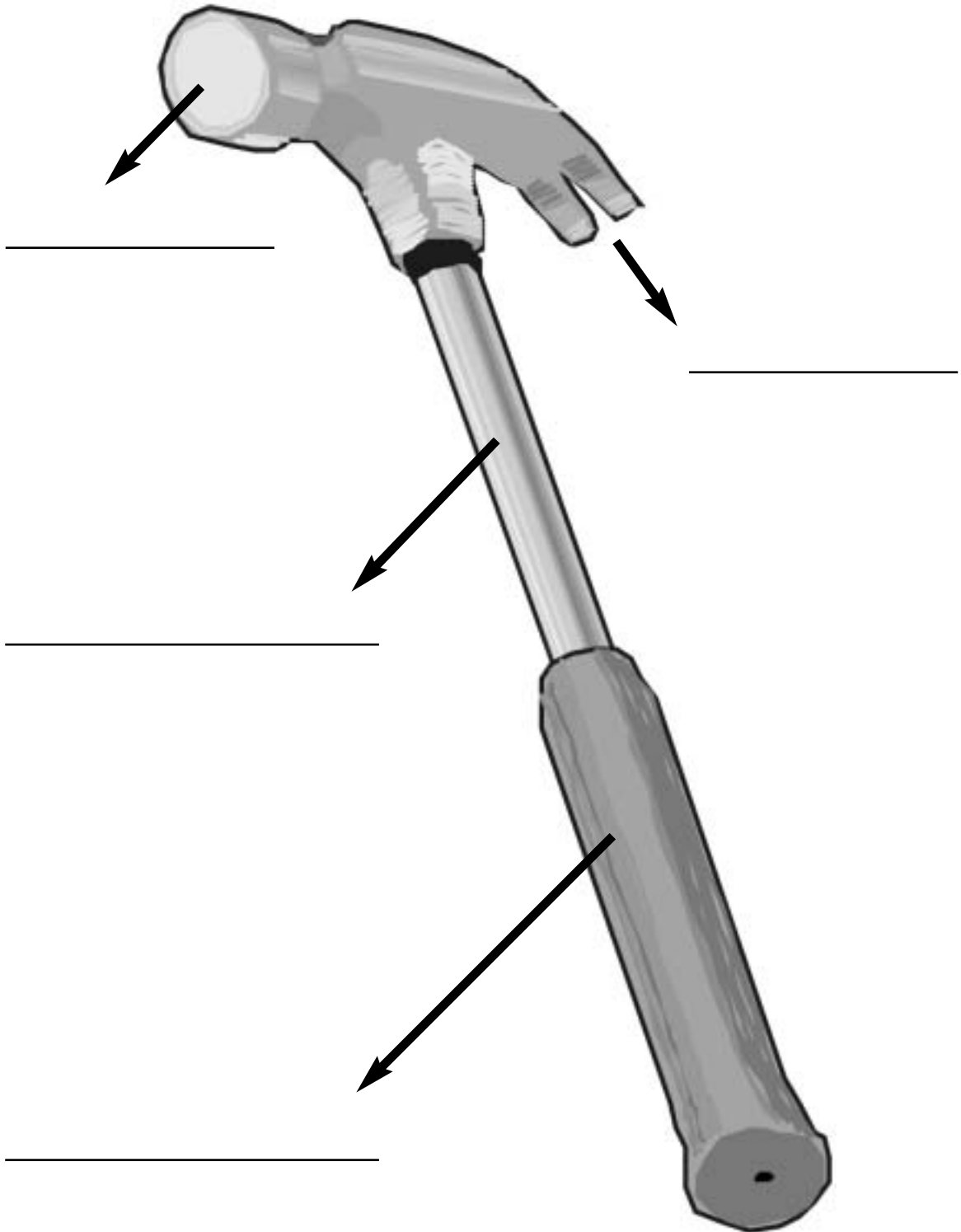
See beginning of the pack for tutor notes on methods and materials and for learning

The claw hammer

The claw hammer is the most common hammer used in woodwork. It has a face that is used to strike the nail. It has a claw that is used to remove nails from timber. The handle can be made from wood or steel. The steel hammer has a rubber sleeve on the handle.

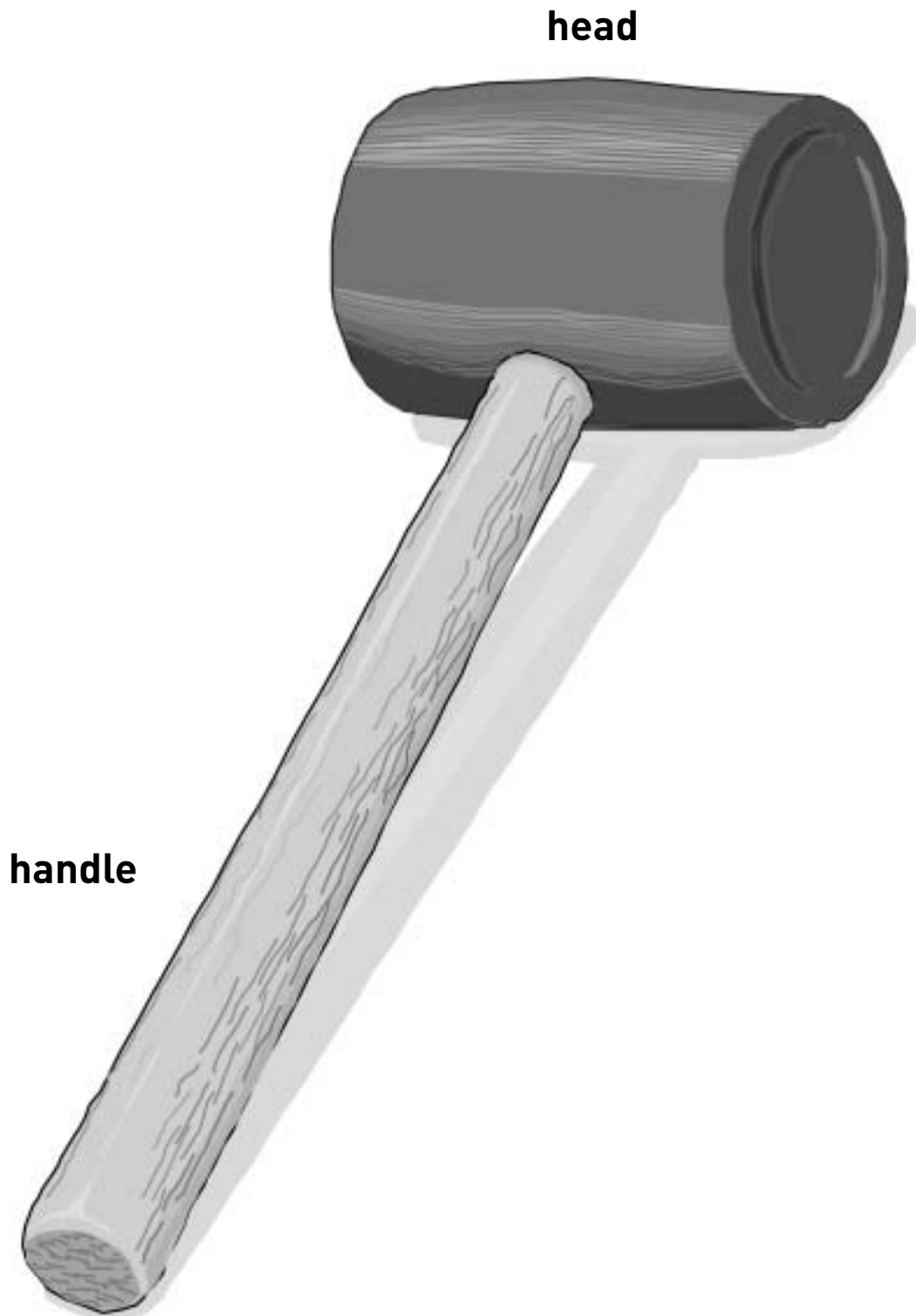


Name the parts of the claw hammer.

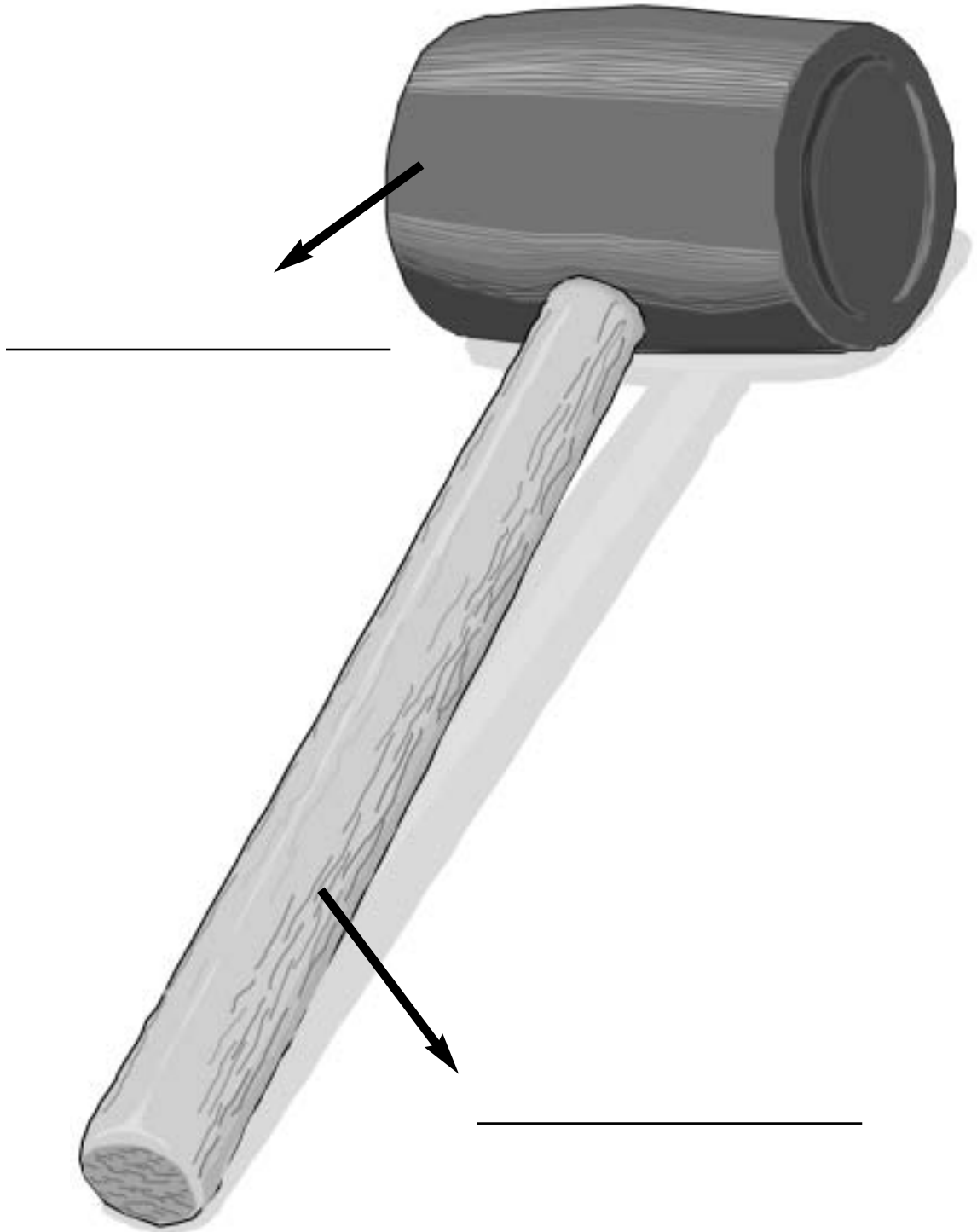


The mallet

The mallet is used mostly for hitting the chisel and putting joints together. It has only two parts, the head and the handle. The mallet is usually made from beech.



Name the parts of the mallet.



Find the words in the wordsearch.

TIP The words go across and down the page

tools	claw	hammer	face
sleeve	head	nails	chisel

p	l	t	o	o	l	s	h
h	n	a	i	l	s	i	r
a	f	a	c	e	w	s	c
m	g	r	h	e	a	d	l
m	c	h	i	s	e	l	a
e	p	t	x	f	h	j	w
r	s	l	e	e	v	e	y

Find the words in the wordsearch.

tools	claw	hammer	face	steel	handle	rubber
sleeve	mallet	head	beech	nail	chisel	wood

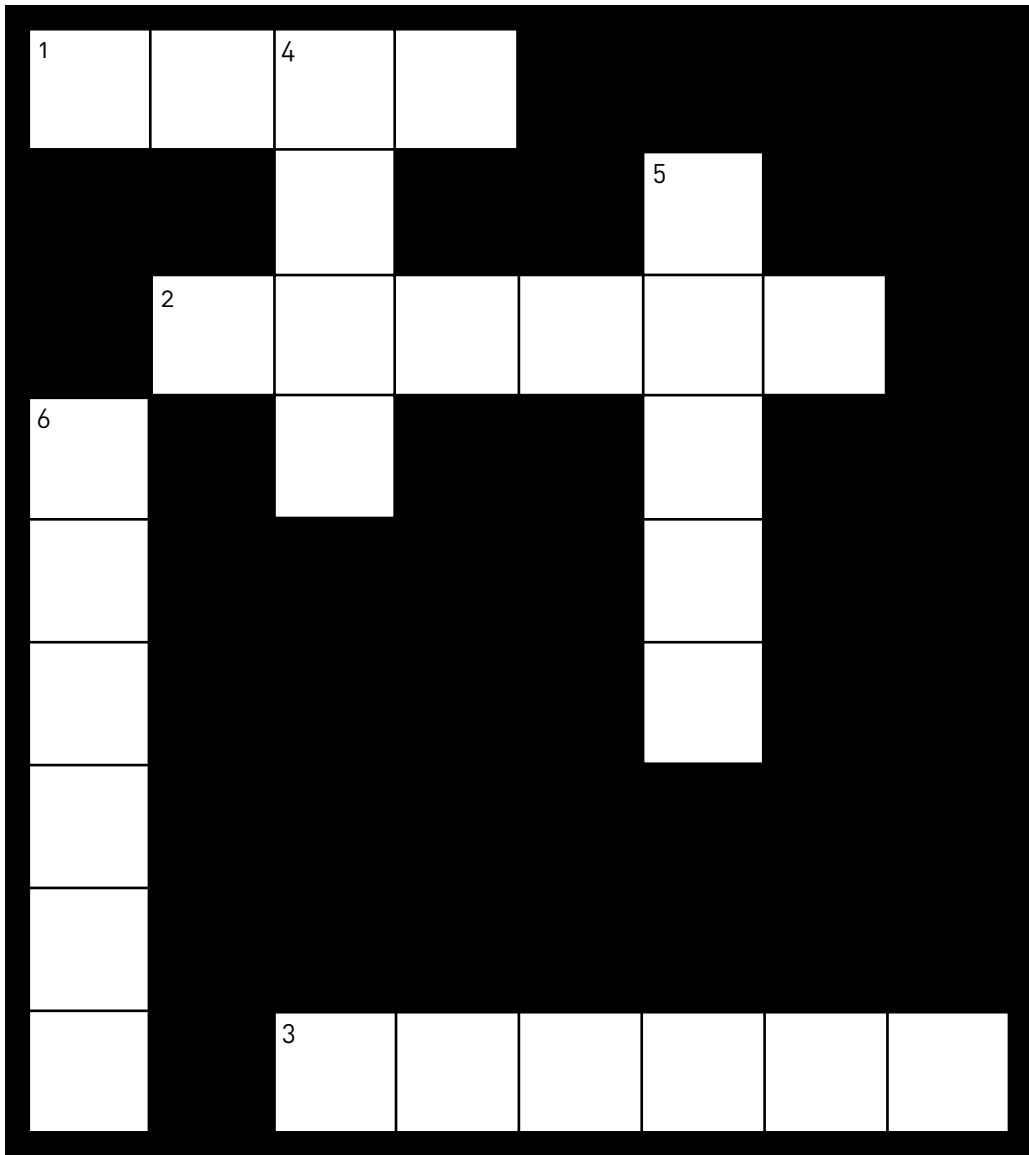
o	p	l	t	o	o	l	s	h	m	c	i
p	h	u	f	o	r	g	t	e	s	l	i
l	a	f	a	c	e	w	s	a	e	a	p
e	m	g	r	b	h	g	o	d	r	w	m
q	m	w	c	h	i	s	e	l	u	z	a
n	e	p	e	x	r	h	j	w	b	i	l
a	r	s	l	e	e	v	e	o	b	e	l
i	h	y	n	o	l	e	p	o	e	f	e
l	t	b	e	f	c	h	x	d	r	u	t
w	l	e	r	m	v	m	t	q	e	l	n
r	o	e	h	a	n	d	l	e	u	v	g
l	i	c	p	s	e	u	i	t	n	b	b
s	u	h	r	m	v	s	t	e	e	l	n

Read the sentences and fill in the missing letters.

1. The c _ _ w hammer is the most common hammer used in w _ _ dwork.
2. The f _ _ e is the part that strikes the n _ _ l.
3. The c l _ _ is used to remove a nail from t _ _ _ _ _.
4. The handle can be made from wo _ _ or st _ _ _.
5. The steel hammer has a rubber s l _ _ _ e to g _ _ p on to.
6. The ma _ _ _ t is used mostly for hitting the ch _ _ _ l and putting joints together.
7. The m _ _ _ _ t has only two parts, the handle and the h _ _ d.
8. The m _ _ _ _ _ is made from beech.

Crossword

All the words in the crossword have to do with the claw hammer and mallet.



Across

1. This part of the hammer strikes the nail.
2. This tool is used to hit the chisel.
3. Steel hammers have it to grip on to.

Down

4. This part of the hammer removes the nail.
5. The mallet is made from this.
6. The grip on the steel hammer is made from this.

Spellings: Homonyms

There are many words in English that sound the same, but have different meanings and different spellings. These words are called homonyms.

Steel: What the hammer is made of

Steal: To rob

Beech: A type of wood

Beach: At the seaside

Wood: Timber

Would: (verb) I would like to go to the cinema.

Circle the correct word.

It is wrong to steel/steal.

The handle of the hammer can be made of steel/steal.

The boy made sandcastles on the beech/beach.

The mallet is usually made of beech/beach.

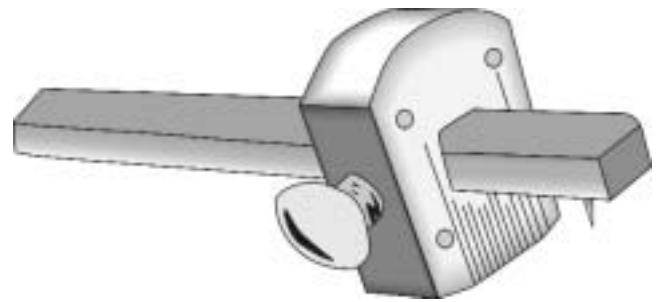
A carpenter works with wood/would.

The carpenter said he wood/would hang the door.

You will need these tools.



pencil



**marking
gauge**



mallet



screwdriver



bradawl



chisel

Match the tools to their correct names.

The first one is done for you.



chisel

screwdriver

marking gauge

mallet

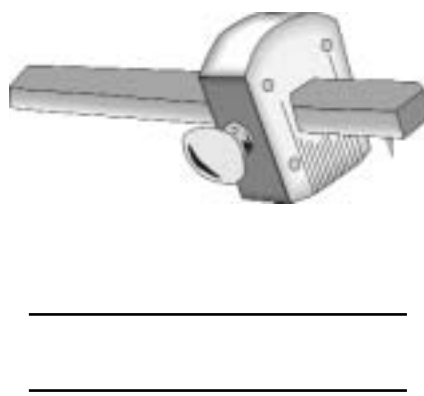
bradawl

pencil

Circle the six tools you need to fit a butt hinge.



Write the names of the correct tool under each picture.



pencil

mallet

marking gauge

screwdriver

chisel

bradawl

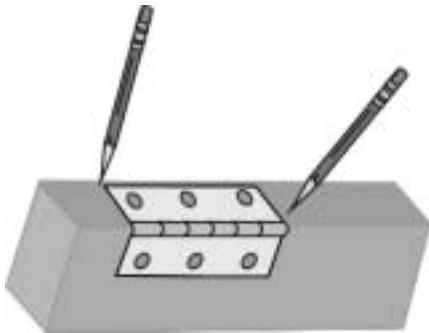
Fill in the gaps by choosing the correct tool from the list below.

Use	Tool
This tool is used for marking out joints.	
This is used to make small holes in the timber, such as pilot holes for nails and screws.	
This tool is made of beech. It is used to strike chisel handles when cutting is needed.	
This is used to drive a screw into the timber.	
This tool is usually made of beech with a plastic or metal locking screw. It is used to mark lines on timber which are parallel to an edge.	
An important tool, this is used to cut out trenches or to pare wood down.	

Definitions from 'Wood Materials Technology' Michael Cross

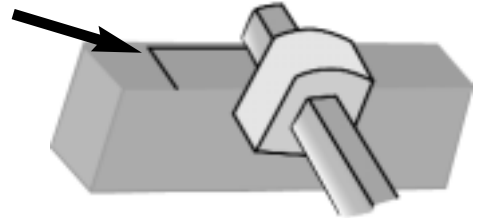
Instructions

1.



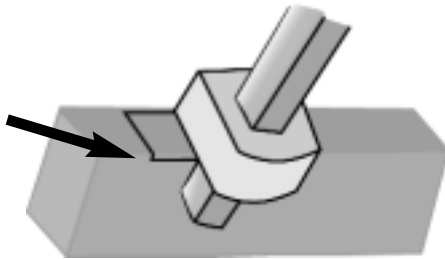
With your pencil, mark on the wood where you are going to put the hinge.

2.



Set your marking gauge to the width of the hinge. Using your gauge, mark a line on the wood as shown by the arrow in the picture.

3.



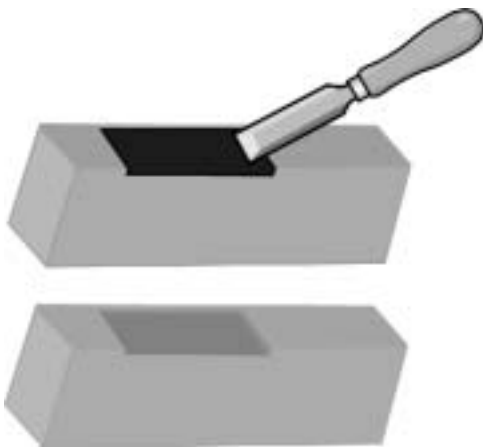
Set your marking gauge to the thickness of the hinge. Using your gauge, mark a line on the wood as shown by the arrow in the picture.

4.



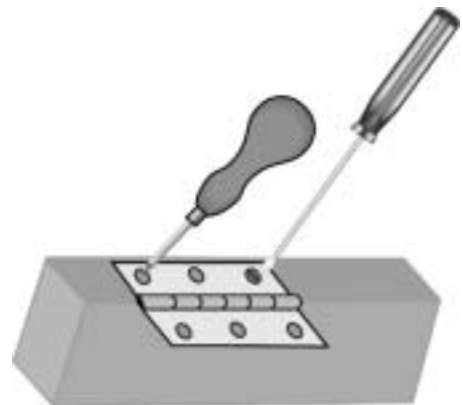
Using your pencil, darken the space inside the lines you have marked.

5.



Using your chisel and mallet, chop out the darkened space to make a slot for the hinge to fit into.

6.



Place the hinge into the slot. Use your bradawl to make holes for the screws. Screw the hinge on with your screwdriver.

Look at **instruction number 5** on the previous page.

“Using your **chisel** and mallet, **chop** out the darkened space”.

Do you notice the **spelling tip**?

The letters **ch** often go together, at the beginning, middle and end of words.

Fill in the missing letters to get the answers to this Wordpuzzle:

Ch _ _ _ _

A place where people pray

Ch _ _ _ _ _ _

The winner in sporting competitions

Ch _ _ _ _

“A ch _ _ _ _ is as good as a rest!”

Ch _ _ _ _ _ _ _ _

You can see this in the zoo.

_ _ ch

Opposite of poor

Ch _ _ _ _

A dairy product

_ _ _ ch

A meal

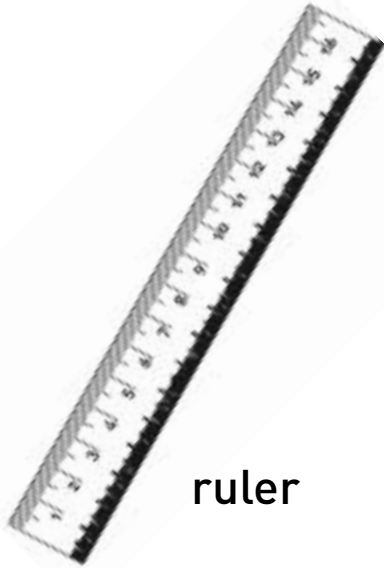
_ _ _ ch _ _ _ _ _

An English football city

_ _ _ ch

A month or a parade

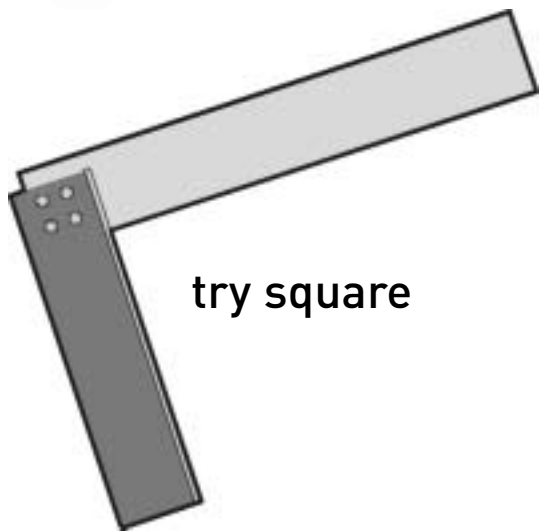
These are the tools you will need.



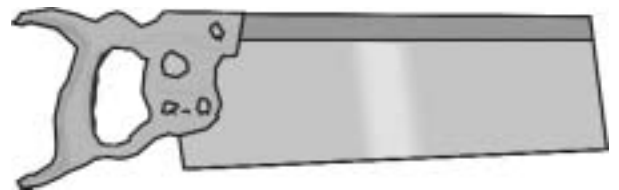
ruler



pencil



try square



tenon saw

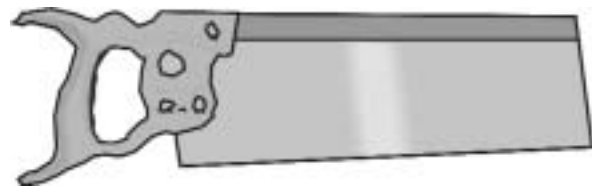
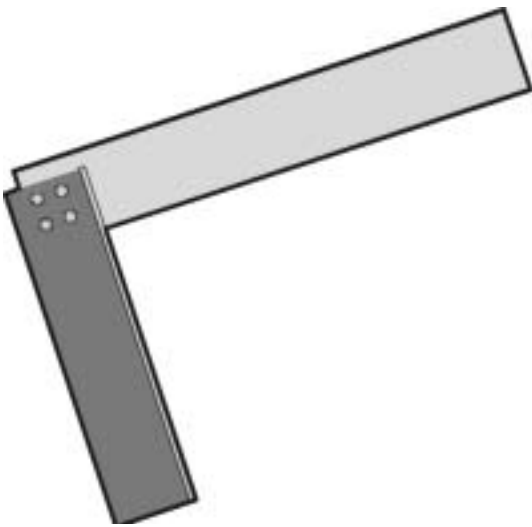


plane



hammer

Name the tools.



Instructions

1. Pick the wood and the tools you need.
2. Write or tell your trainer what you are going to do.
3. Get the wood from the trainer. Measure the wood using a ruler. Mark the wood with a pencil and try square.
4. Cut the wood along the lines with a tenon saw.
5. Plane the wood down to the lines with the smoothing plane.
6. Rub the wood with sandpaper until it is clean and smooth.
7. Make your tray with small nails and glue, and put varnish on it.
8. Tell your trainer what you did well and what you think you could do better.

Written by trainees in Finglas West CTW

Unscramble the letters to find the names of the tools used when making a Serving Tray.

lrure _____

ytr qreaus _____

noten wsa _____

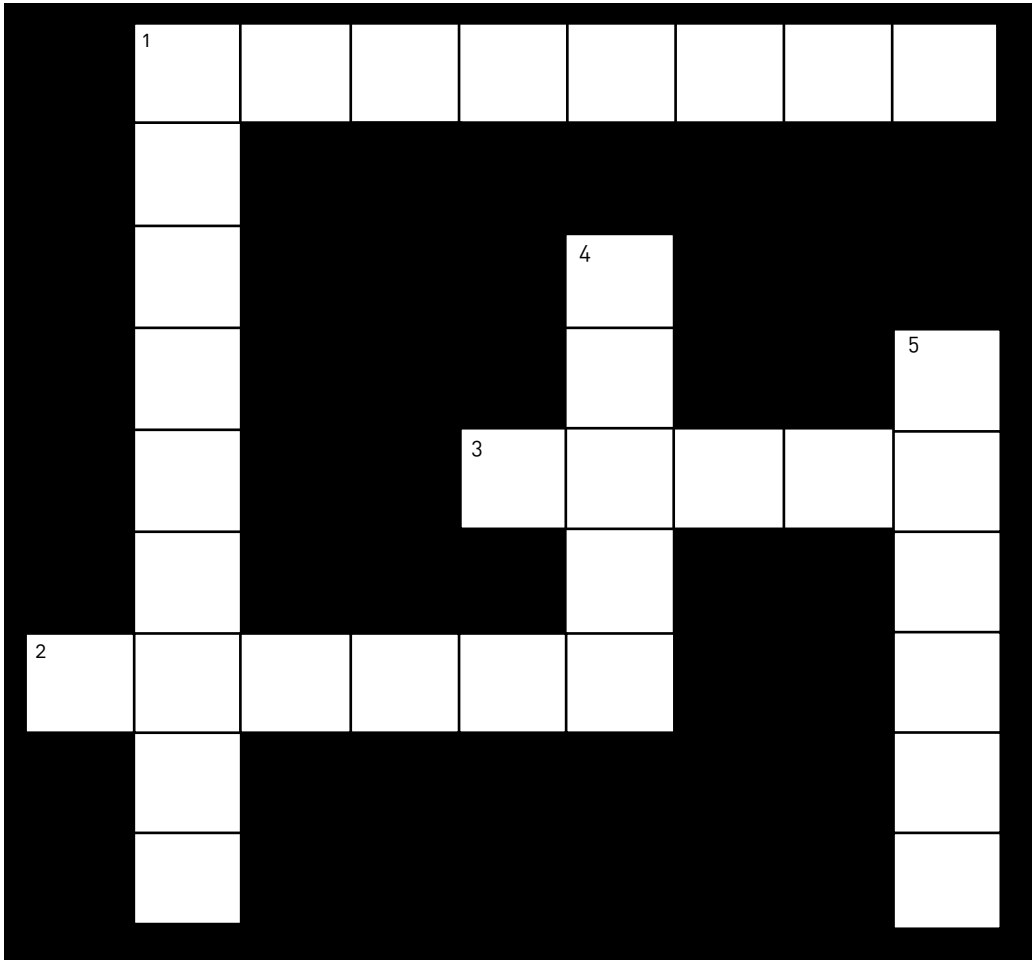
thooingsm palen _____

cliepn _____

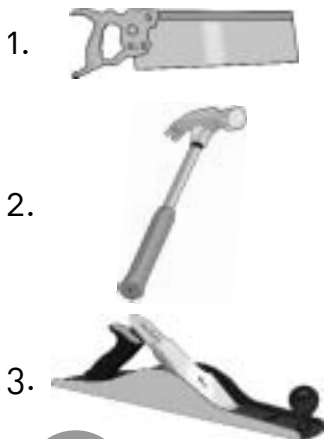
mmerha _____

Try this crossword. All the answers are in the box below.

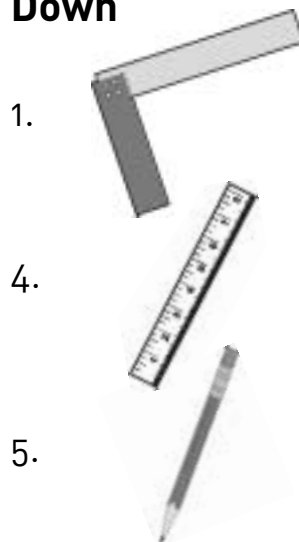
tenon saw ruler hammer
pencil plane try square



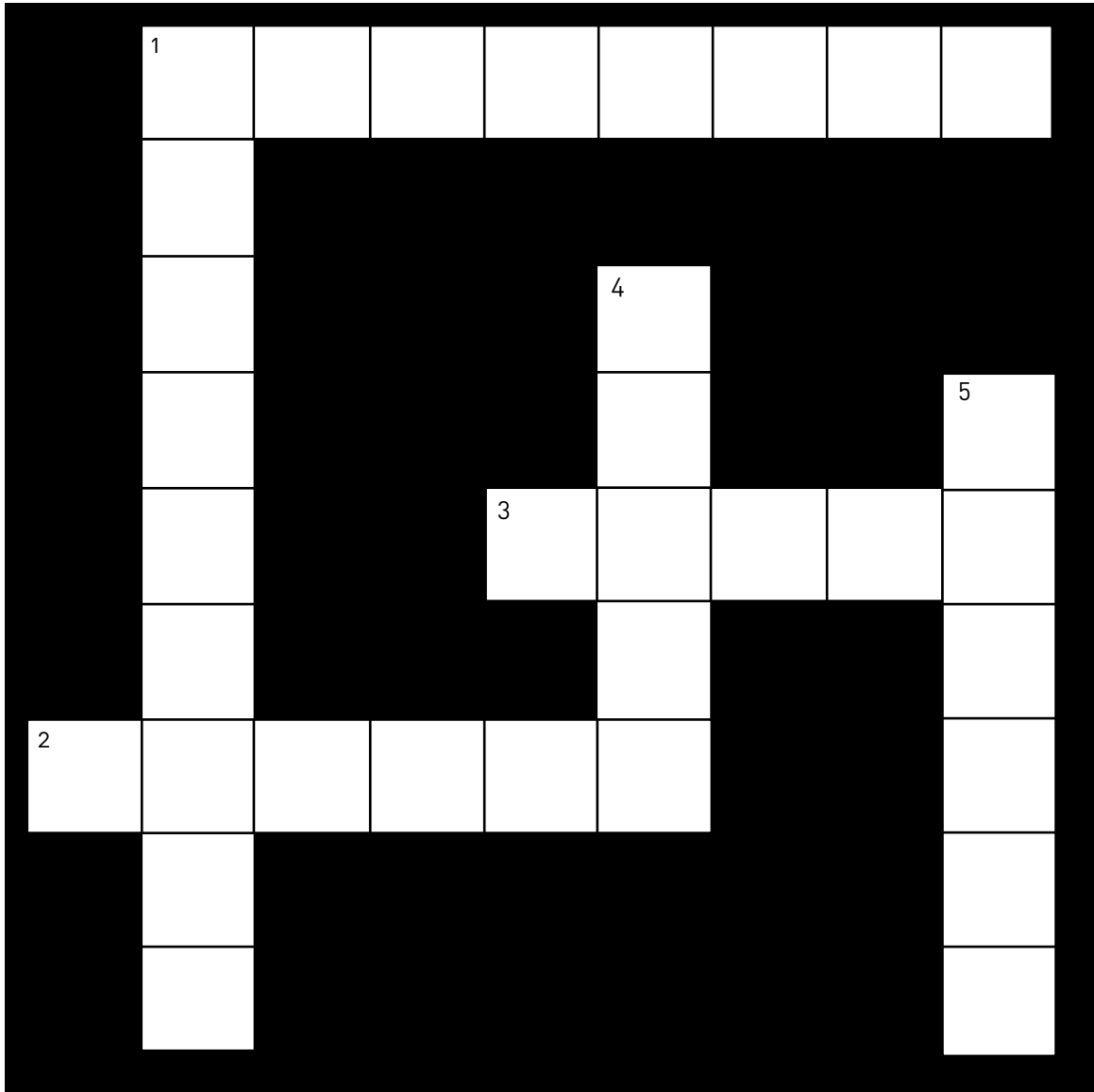
Across



Down



Try this crossword.



Across

1. A tool used to saw wood (5,3)
2. A tool used for driving nails (6)
3. A tool used to make wood smooth (5)

Down

1. A tool used to make sure that lines are square (3, 6)
4. A tool used for measuring (5)
5. This is used to mark lines with (6)

Name the tool and its use.

1.



Name: _____

Use: _____

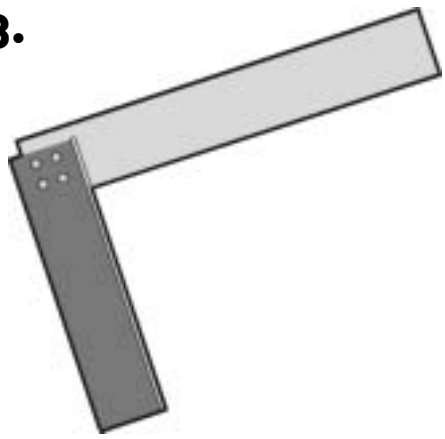
2.



Name: _____

Use: _____

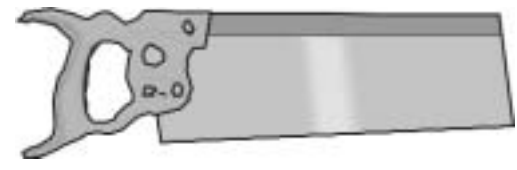
3.



Name: _____

Use: _____

4.



Name: _____

Use: _____

5.



Name: _____

Use: _____

6.



Name: _____

Use: _____

Wordquiz

Answer these questions using tools from the box below.

tenon saw
pencil

ruler
plane

hammer
try square

1. We can fly in this. _____
2. A king or queen might be this. _____
3. If you don't like round why not _____
4. This word starts with a type of meat. _____
5. You can write with this. _____
6. This tool starts with a 3 letter number. _____

Riddle

Can you solve this riddle?

TIP The answer is one of the tools written backwards.

Q. A fishing boat set out to sea. The crew checked the equipment and immediately turned back in to the harbour. Why?

A. Because there _____

Wordquiz Answers
1. plane 2. ruler 3. try square 4. hammer 5. pencil 6. tenon saw

Read the following instructions. They are taken from the FÁS Integrated Assessment System.

Instructions

- Select the materials and tools needed to complete this project.
- List or state to your trainer the steps you must go through to do this project.
- Given the wood, measure and mark the wood to the correct size as per drawing.
- Cut wood to size at marks, using a tenon saw.
- Set the plane and level and square wood.
- Sand and clean all wood surfaces.
- Assemble the project, using adhesives and panel pins, following the drawing. Varnish the tray.
- Discuss with your trainer the tasks you did well and the tasks in which you could have done better.

Match words with similar meaning.

The first one is done for you.

glue	assemble
finish	discuss
right	adhesive
put together	select
choose	complete
talk	tasks
jobs	correct

Wordquiz

Choose a word from the box to answer these puzzles.

assemble	adhesive	complete
select	tasks	discuss
	correct	

- Which word has the thing you should do when you want to know something? _____
- Which starts with a small word meaning donkey?

- Which word has a word in it that means 'choose by voting'?

- This word contains the **United States**.

- Another word for 'right'. _____
- He** is stuck in this word. _____
- Which small word will finish this Valentine?**



"I'll make for you a Serving Tray
With wood that's sanded, smooth and neat,
I'll serve you all my love each day
Because you make my life c _ _ _ _ _ e!



Wordquiz Answers 1. tasks 2. assemble 3. select 4. discuss 5. correct 6. adhesive 7. complete

Put these words into alphabetical order.

chisel
pencil

ruler
plane

hammer
mallet

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

a b c d e f g h i j k l m
n o p q r s t u v w x y z

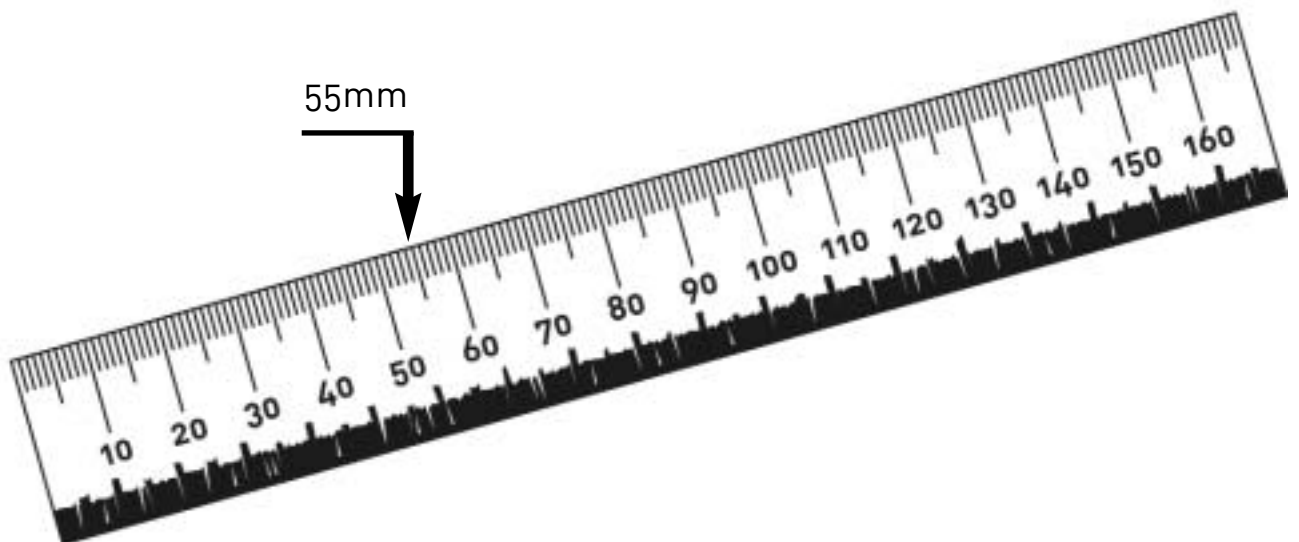
Measuring in millimetres

To find the length of small items correctly we use millimetres.

The word millimetre is shortened to **mm**.

On your ruler, a mm is too short for each one to be numbered.
Only every tenth one is numbered.

For example



The arrow shows 55mm on the ruler.

Show with an arrow where these measurements are on the ruler:

1. 25mm

3. 63mm

2. 15mm

4. 96mm

Measuring in millimetres

Measure the length of the lines in **millimetres** and fill in the answers.

Remember that a millimetre is a small unit of length. It is easy to make a mistake so take your time.

a. _____ mm

b. _____ mm

c. _____ mm

d. _____ mm

e. _____ mm

f. _____ mm

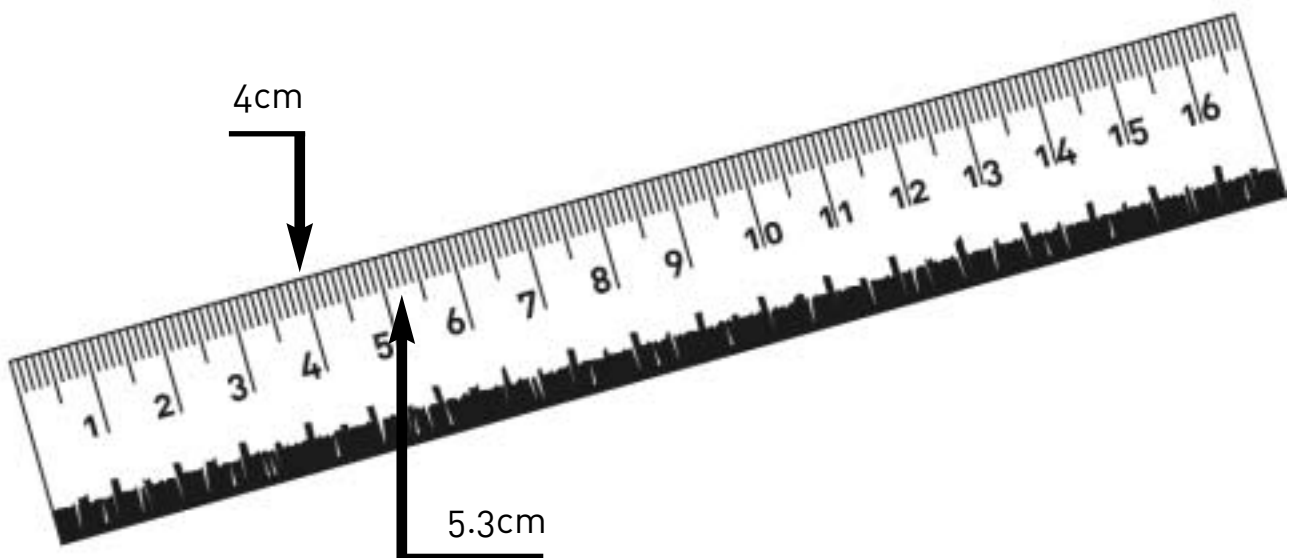
Answers	a. 98	b. 62	c. 41	d. 21	e. 80	f. 117
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Measuring in centimetres

There are 10 millimetres (mm) in 1 centimetre (cm).

$$10\text{mm} = 1\text{cm}$$

For example 40mm is the same as 4cm



53mm is the same as 5.3cm

Show with an arrow where these measurements are on the ruler:

1. 2cm

3. 6.1cm

2. 3.5cm

4. 9.3cm

Measurements and measuring

Measurements in millimetre and centimetre are called **metric**.

Measure the length of these lines and fill the answers in on the chart.

A _____

B _____

C _____

D _____

E _____

Line	Centimetres	Millimetres
Line A		
Line B		
Line C		
Line D		
Line E		

Answers A. 110 B. 38 C. 146 D. 87 E. 53

Measurement

Read the clues and fill in the answers.

All the words have to do with measurement.

1. A tool used for measuring.

--	--	--	--	--

2. Before the wood is cut you must _____ the right size.

--	--	--	--	--	--	--

3. Short for millimetre

--	--

4. There are 10 millimetres in one of these.

--	--	--	--	--	--	--	--	--	--

5. Measurements in millimetres and centimetres are called this.

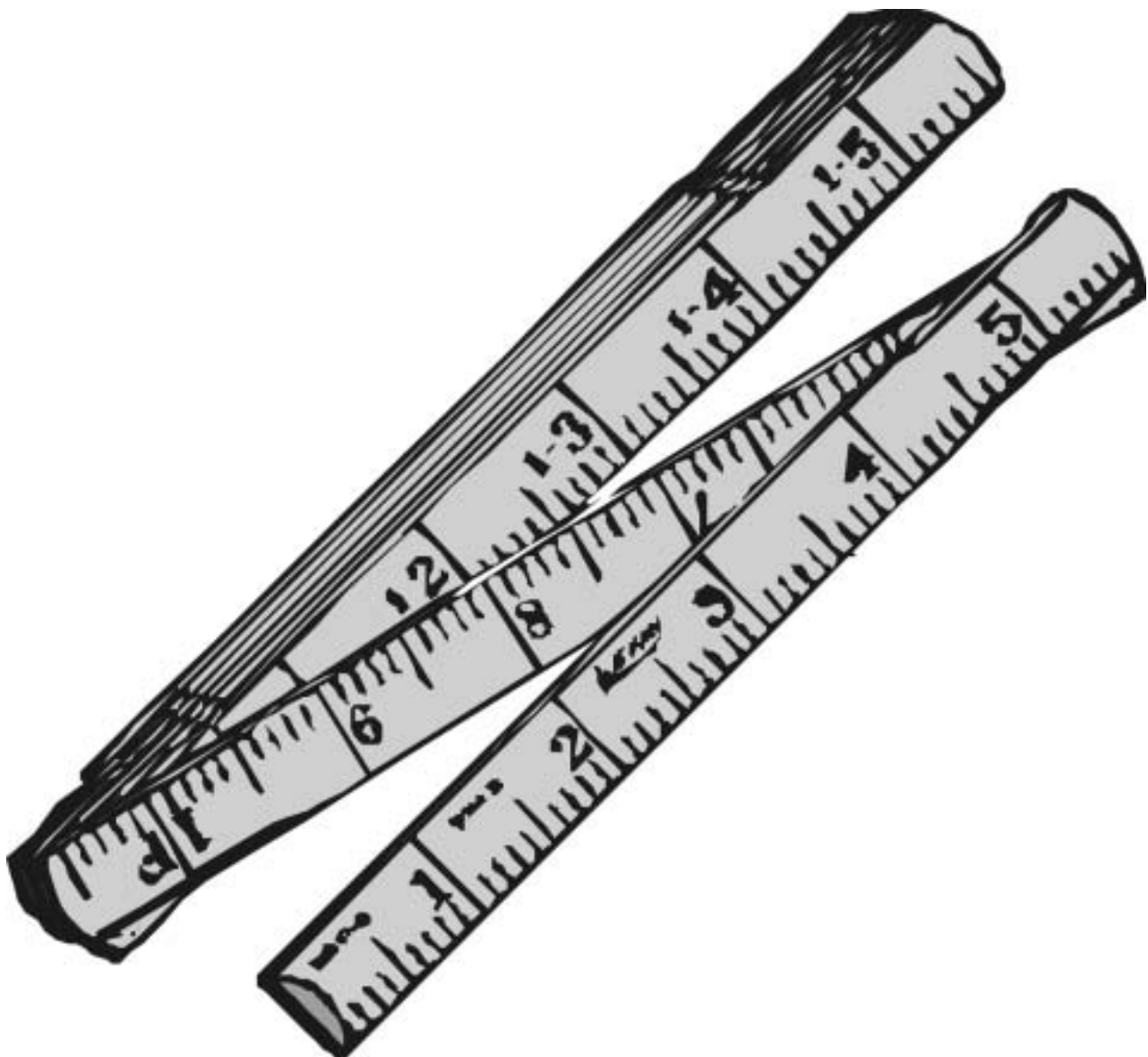
--	--	--	--	--	--

6. Short for centimetre

--	--

The folding rule

The folding rule can be used in a small space where a long rule would be too big to fit in. It also overcomes the problem of carrying a long measuring rod to the worksite. Both metric and imperial measurements are available on folding rules. It is made from hardwood and reinforced at the ends with brass. A folding rule should be protected from damage. Once a joint hinge becomes strained or loose the rule will not show a correct measurement.



Fill in the missing words from the box below.

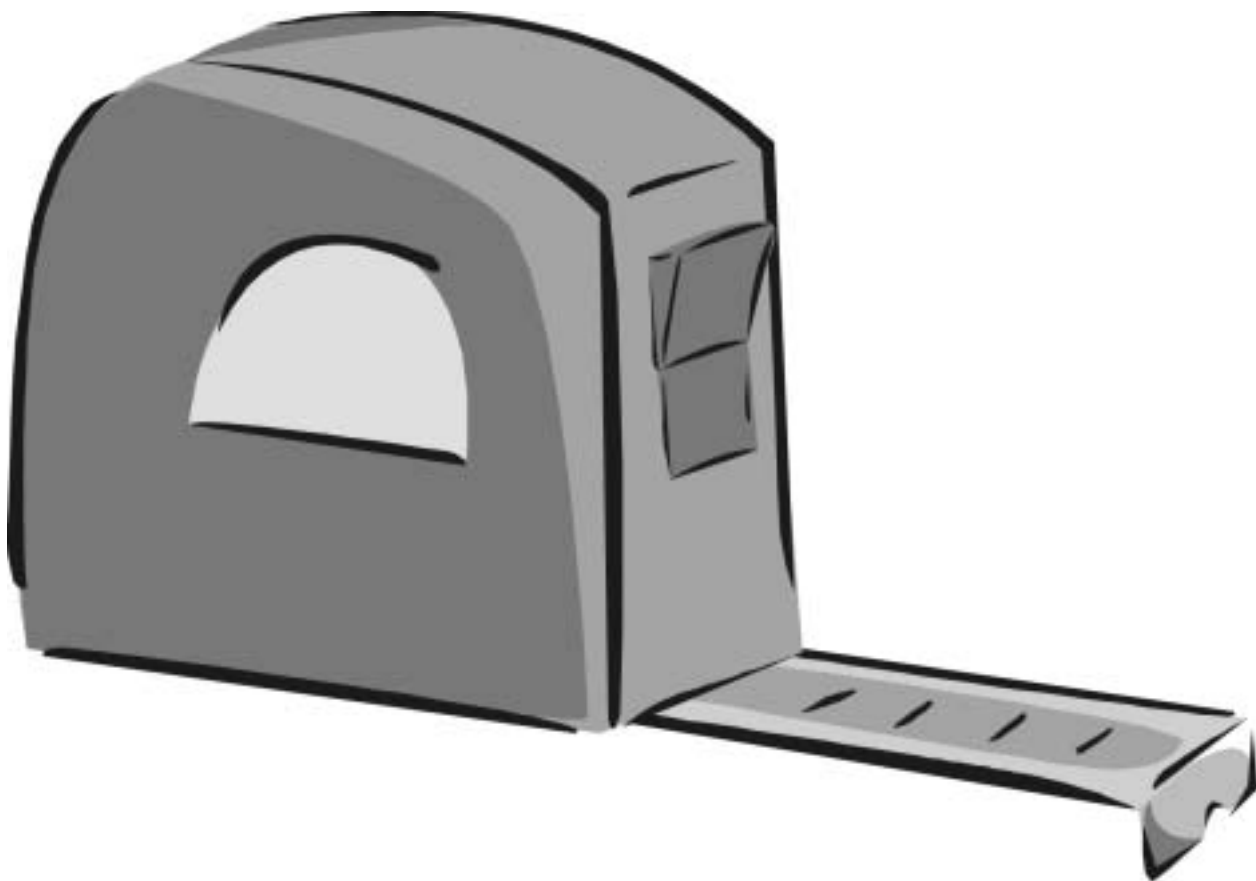
rule	metric	rod	It
protected	space	hardwood	

The Folding Rule

The folding rule can be used in a small _____ where a long rule would be too big to fit in. _____ also overcomes the problem of carrying a long measuring _____ to the worksite. Both _____ and imperial measurements are available on folding rules. It is made from _____ and reinforced at the ends with brass. A folding rule should be _____ from damage. Once a joint hinge becomes strained or loose the _____ will not show a correct measurement.

The measuring tape

The push-pull steel tape measure is an extendable steel strip coiled into a container. The tape is spring-loaded, so that as soon as it is released it will automatically return to the case. On some cases a lock is provided to hold the tape when extended. Measuring tapes can be got in a variety of different sizes. Tapes are available with both metric and imperial sizes or a mixture of both.



Fill in the missing words from the box below.

released

tape

available

steel

measuring

lock

The measuring tape

The push-pull steel tape measure is an extendable _____ strip coiled into a container. The _____ is spring-loaded, so that as soon as it is _____ it will automatically return to the case. On some cases a _____ is provided to hold the tape when extended.

_____ tapes can be got in a variety of different sizes. Tapes are _____ with both metric and imperial sizes or a mixture of both.

Being able to estimate or guess measurements is a useful skill to practise.
Try this:

Pick an object in the work area.

The object must not be longer than the ruler or tape.

Guess the size of the object and write your guess down. Then measure the object in millimetres and write the measurement beside your guess.

Object: _____	
Guess I guess this object will measure _____ mm	Measure I have measured the object. It measures _____ mm

Object: _____	
Guess I guess this object will measure _____ mm	Measure I have measured the object. It measures _____ mm

Object: _____	
Guess I guess this object will measure _____ mm	Measure I have measured the object. It measures _____ mm

Object: _____	
Guess I guess this object will measure _____ mm	Measure I have measured the object. It measures _____ mm