




Home Learning Grid Year 3



Week Commencing – 29.06.20

Work to be completed in home learning books

	1	2	3	4
English	SPaG- Prepositions	Reading- Famous Pirates.	Look at image below. You then choose whether to write a story about what has happened to lead to this image, a setting description using all your senses or a diary entry pretending to be a pirate on the ship. Try to be as creative and include as many different Year 3 skills we have been using this year.	First News – It's Back!
Maths	Compare angles https://whiterosemaths.com/homelearning/year-3/ Click week 9, compare angles	Horizontal and vertical https://whiterosemaths.com/homelearning/year-3/ Click week 9, Horizontal and vertical	Parallel and perpendicular https://whiterosemaths.com/homelearning/year-3/ Click week 9, Parallel and perpendicular	Draw accurately https://whiterosemaths.com/homelearning/year-3/ Click week 10, draw accurately
Outdoors	The Big Den Challenge			
	Let's Make a Den!!! Whether it's inside or outside, let's try to make a den. Your very own place to relax, paint, work, sleep, read – whatever you want. See below for help.	Home Scavenger Hunt Use your den as a base to collect as many of things as you can from our home scavenger hunt.	Be the King or Queen You have a den? Check. Now you are the king or queen of the castle, you'll need a crown too. Read below.	Relax and Read in Your Kingdom Send us a photo, on Seesaw, of you reading a good book in your den.
PE	School Games Active Championships 			

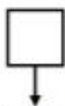
As you are aware, the Oak National Academy also provide a wealth of learning opportunities during the national lockdown. These can be assessed here: <https://www.thenational.academy/online-classroom> . We understand that some families may prefer to work from these materials and this is absolutely fine.

Our new grids will hopefully encourage children to use the final few weeks of term to get outdoors where possible and be creative. We are thrilled to see so many children learning at home and taking the opportunity to also do all kinds of things at home which are not usually taught in the classroom. We would like to sincerely thank everyone for their support during this strange time.

English 1

What is a preposition?

1. Put an 'X' in the box to show where the preposition is in the sentence below.



Phoebe and Gunther darted among the tall, menacing trees.

2. Underline the sentences below that use the preposition(s) correctly.

- A. The Ice Queen cast the horrific spell without warning.
- B. The sun was shining through the white, fluffy clouds.
- C. Janice against leant the wall to rest.
- D. Lisa and David crouched behind the bush to hide from the seekers.

3. Ross and Rachael are discussing the sentence below. Who is correct? Explain your choice.

Emma ran as fast as she could in the field.



Ross

I think that you could replace the underlined preposition with the word 'across'.

I think that you could replace the underlined preposition with the word 'through'.



Rachael

Prepositional Phrases

1. Match the prepositional phrases to the correct sentence starters.

The little girl ran

behind the shed.

The monkey climbed

across the park.

The robber hid

off the branch.

2. Which prepositional phrases would fit into both the sentences below.

The cat squeezed _____.

Robert was sat _____.

after the dog

following the lady

between the two girls

3. Unscramble the words to create a sentence that includes a prepositional phrase.

the

the

through

motorway

built

hillside.

They

Famous Pirates

Captain Blackbeard

Born: 1680

Died: 22nd November 1718

Blackbeard's real name was Edward Teach. He married 14 times! It has been said that his favourite drink was rum mixed with gunpowder. Blackbeard was active in piracy for only 2 years before he was caught and killed. His head was chopped off and hung from his enemy's ship as a trophy and warning to other pirates.

Anne Bonny

Born: 8th March 1698

Died: 22nd April 1782

Anne was friends with another female pirate called Mary Read. Anne was the girlfriend of pirate Calico Jack, who she eventually ran away with! She acted and dressed just like a male pirate and was excellent at fighting.

Black Barty

Born: 17th May 1682

Died: 10th February 1722

He was born in South Wales as John Roberts and later adopted the name 'Bartholomew', or 'Black Bart' when he became a pirate. He was known to love expensive clothes and jewellery and was always well-dressed, even in battles! He was eventually killed by the British Government and his crew were put on trial in the biggest pirate trial in history.

William Kidd

Born: circa 1654

Died: 23rd May 1701

Before he became a pirate, William Kidd was a wealthy and respected privateer and protected the British and American trade routes from French warships. However, he was very unlucky and was forced into piracy by his unruly ship crew whilst on duty. It was also at this time that the American people became very intolerant of all pirates, so when he was caught they had to make an example and he was hanged. Kidd was the only pirate known to have ever buried any treasure on Long Island, New York.



1. Which of these pirates was born first?

2. '...that the American people became very intolerant of all pirates.'
What do you think the word intolerant means in this sentence?

3. How are Captain Blackbeard and Black Bart similar?

4. Do you think that male pirates respected Anne Bonny? Why?



IT'S BACK!



THE Premier League finally restarted on Wednesday 17th June, exactly 100 days since it was halted due to the coronavirus.

If you've been missing the footie, you're in for a treat. All remaining 92 games are going to be packed into the next 42 days and many of the matches will be on free TV channels, so everyone can watch.

Football won't be the same as before though. Games will take place in empty stadiums and crowd noise will be added to give the match more atmosphere. Players are being tested for the virus twice a week.

After the three-month break, Liverpool in particular will be raring to go. They are on the verge of winning the competition for the first time in 30 years.

At the moment they sit comfortably at the top of the table, a full 25 points clear of Manchester City in second. They only need two wins from their nine games left to play in order to gain the six points they need to be crowned champions and win the trophy (above).

Players will also have a chance to battle it out for the Golden Boot, awarded to the season's top scorer. Jamie Vardy of Leicester City is currently leading that table with 19 goals.

This week's matches on free TV

Weds 24th June	Manchester United v Sheffield United (6pm) – Pick TV
	Norwich v Everton (6pm) – BBC
Thursday 25th June	Burnley v Watford (6pm) – Pick TV
Sunday 28th June	Watford v Southampton (4:30pm) – Pick TV



Liverpool's Virgil van Dijk in action during a behind closed doors friendly against Blackburn

Questions on: 'It's back!'

- 1) What happened on Wednesday 17th June?
- 2) How long has the Premier League been suspended because of the coronavirus?
- 3) Why is it going to be a very busy six weeks for football players and fans?
- 4) Explain how the football matches are going to be different to before the lockdown.
- 5) Which option has a similar meaning to "raring to go"?

Eager to begin
 Keen to run fast
 Desperate to win

- 6) What might Jamie Vardy win this year?

The award for

- 7) Look at the information on the free-to-watch football matches and answer this quick quiz.

Who are Manchester United playing on Wednesday?	
What time does the Watford-Southampton match start?	
Which TV broadcaster is showing the Norwich v Everton match?	
What day and date is the Burnley v Watford match?	

- 8) Do you predict that Liverpool will win the Premiership this year?

Use the information from the report to answer, even if you don't know anything about football! Explain your opinion.

Compare angles

1 Here are some angles.

a) Circle the angle that is greater than a right angle.



b) Circle the angle that is less than 90 degrees.



2 Draw three different angles that are less than a right angle.

Compare answers with a partner.

Complete the sentence.

These are all examples of _____ angles.



3 Draw two different obtuse angles.

Compare answers with a partner.

Complete the sentence.

Obtuse angles are greater than degrees

but less than degrees.

4 Is the angle between the hands of the clock acute or obtuse?

a)



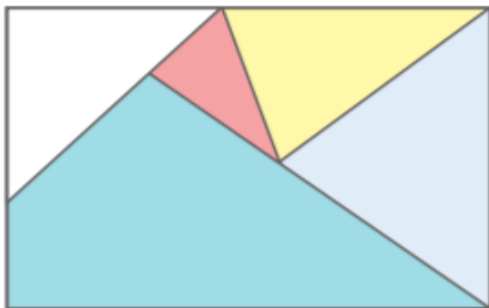
b)



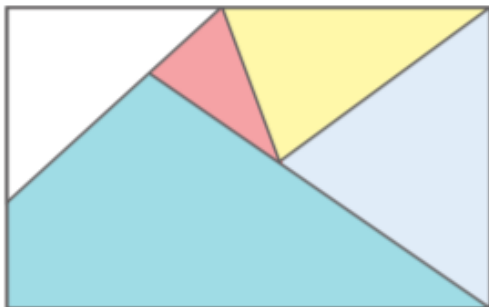
5 Here is a piece of wallpaper.



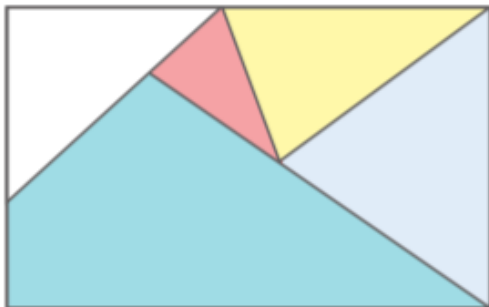
a) Mark two right angles on the wallpaper.



b) Mark four acute angles on the wallpaper.



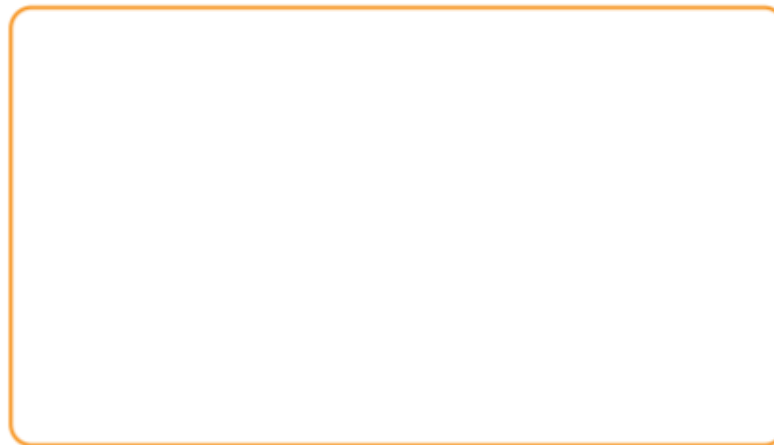
c) Mark two obtuse angles on the wallpaper.



6 Write $<$, $>$ or $=$ to compare the sizes of the angles.



7 Draw a shape that has one right angle, two acute angles and one obtuse angle.



Compare answers with a partner.

What is the same and what is different about your shapes?

Horizontal and vertical

1 Circle the line that is horizontal.



2 Circle the line that is vertical.



3 Use a ruler to draw the lines.

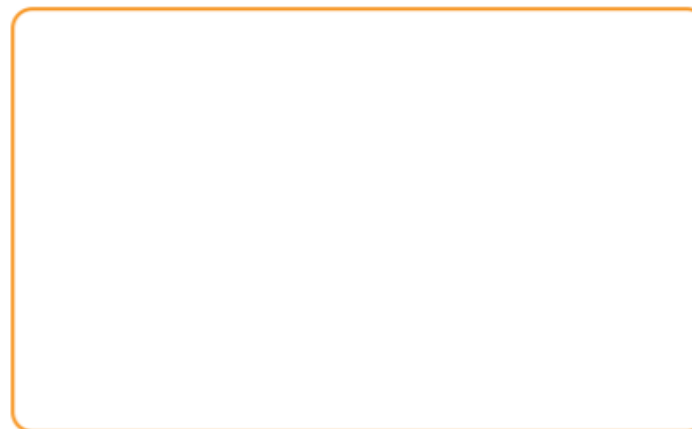
a) Draw a horizontal line 5 cm long.



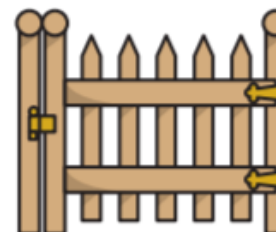
b) Draw a line that is not horizontal or vertical.



c) Draw a vertical line 5 cm long.



4 Tick two horizontal lines on the gate.



5 Tick three vertical lines on the chair.



6 Here are some flags.

a) Circle the flags that have horizontal stripes.



b) Circle the flags that have vertical stripes.

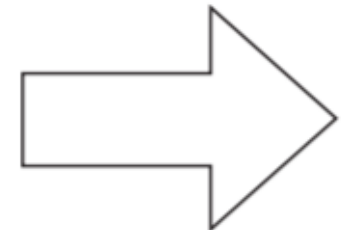


c) Is the statement true or false?

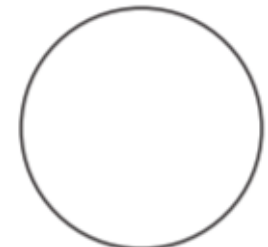
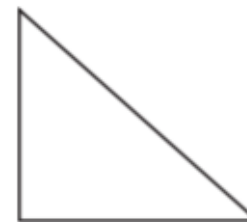
This flag has vertical and horizontal stripes.



7 Tick the shapes that have a vertical line of symmetry.
Draw on the shapes to show the line of symmetry.

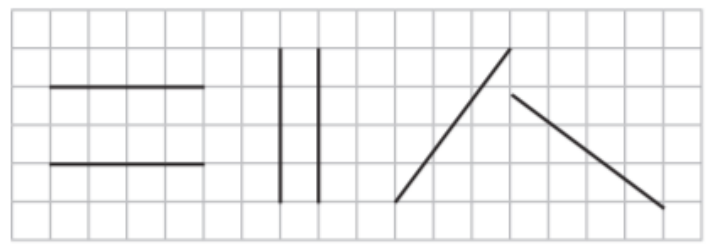


8 Tick the shapes that have a horizontal line of symmetry.
Draw on the shapes to show the line of symmetry.



Parallel and perpendicular

1 Tick the pairs of lines that are not parallel.



2 Here are two lines.

Draw a line that is parallel to each.

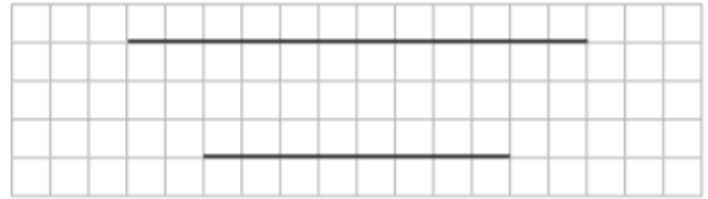
a)



b)



3 Amir says that the lines are not parallel because they are different lengths.



Is Amir correct? _____

Why?



4 a) Here is a line. Draw a line that is **not** parallel to it.



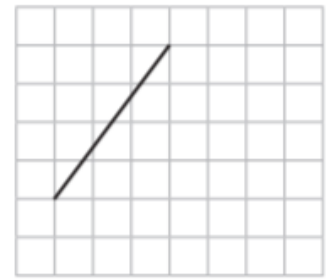
b) Here is a line. Draw a line that is parallel to it.



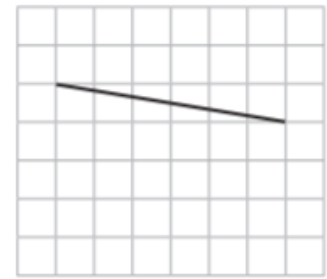
5 Here are two lines.

Draw a line that is parallel to each.

a)

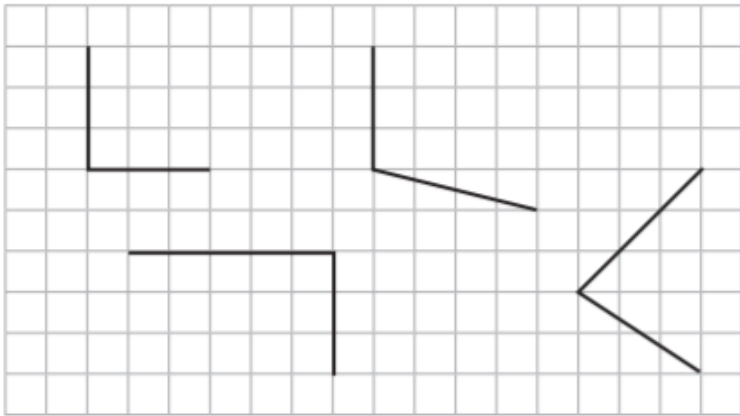


b)



Talk to a partner about how you did it.

6 Tick the perpendicular lines.

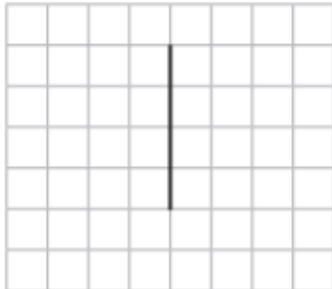


7 Here are two lines. Draw a line that is perpendicular to each.

a)

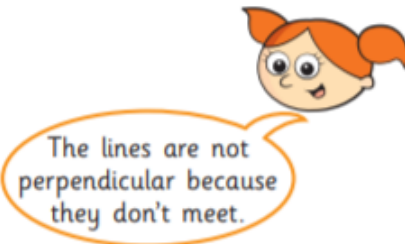
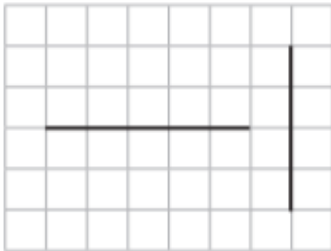


b)



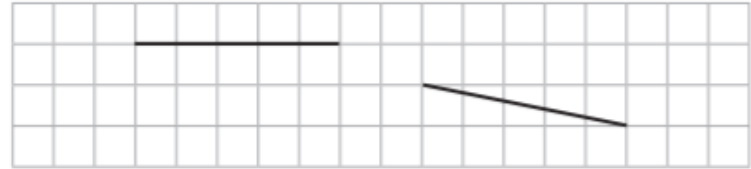
8 Alex has drawn some lines on grids.

a)



Do you agree with Alex? _____

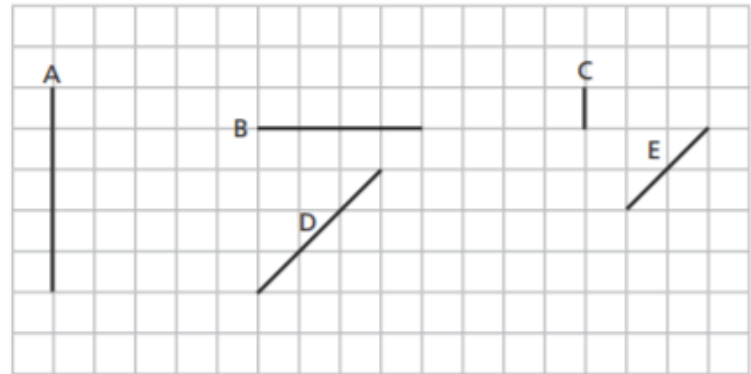
b)



Do you agree with Alex? _____

Talk about your answers with a partner.

9 Five lines are drawn on the grid.



a) Which two pairs of lines are parallel?

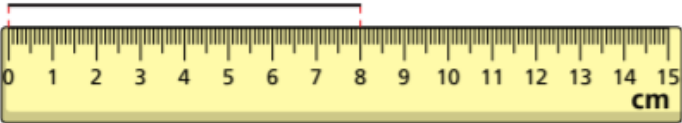
b) Which two pairs of lines are perpendicular?

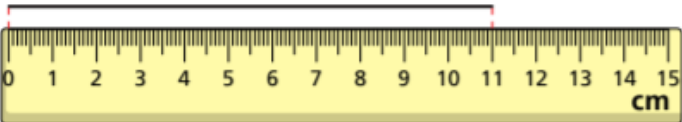



Draw accurately



1 How long is each line?

a)  cm

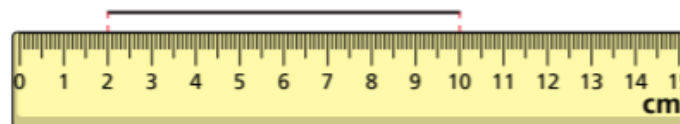
b)  cm

c)  cm

2 Draw two lines that are each 5 cm long.



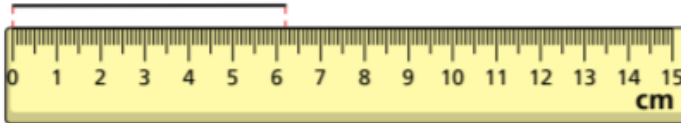
3 Dani says the line is 10 cm long.




a) What mistake has Dani made?

b) How long is the line? cm

4 What is the length of each line in millimetres?

a)  mm

b)  mm

c)  mm

5 Use a ruler to draw the lines.

a) Draw a line 8 cm long.

b) Draw a line 80 mm long.

What do you notice about the lines you have drawn?

Why is this?

6 Use a ruler to help you answer the questions.

a) Draw a 4 cm by 4 cm square.



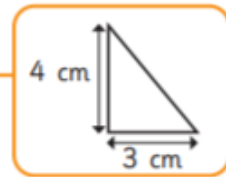
b) Measure the length of the diagonal.

Give your answer in millimetres.

 mm

7 Draw a rectangle 8 cm long and 32 mm wide.

8 a) Make a sketch of the triangle.



b) Use your drawing to work out the perimeter of the triangle.

 cm

Pirate Themed Mental Calculations Mosaic

Solve the calculations to reveal the hidden picture. Each answer has a special colour.

Black = White = Blue = Yellow = Green = Red = Purple =
0 - 99 **100 - 249** **250 - 399** **400 - 549** **550 - 699** **700 - 849** **850 - 999**

784 - 500	118 + 200	306 + 400	915 - 200	142 + 600	708 - 400	884 - 500	763 - 500	624 - 300
226 + 100	219 + 500	823 - 123	362 - 200	105 + 100	456 + 300	691 - 400	509 - 200	799 - 400
918 - 600	256 + 200	598 - 100	763 - 700	622 - 400	879 - 100	139 + 200	807 - 500	992 - 600
571 - 300	711 - 300	322 + 200	749 - 500	117 + 100	542 + 200	582 - 300	792 - 500	248 + 100
111 + 200	999 - 500	442 - 400	604 + 100	422 + 400	482 + 300	211 + 600	544 - 200	676 - 400
678 - 300	826 - 500	206 + 100	518 + 200	615 + 200	983 - 200	506 + 300	164 + 200	711 - 400
867 - 600	951 - 700	420 + 300	908 - 200	637 + 200	159 + 400	981 - 400	147 + 600	159 + 100
706 - 400	854 - 600	662 + 100	384 + 400	925 - 300	213 + 400	156 + 400	465 + 500	764 - 400
158 + 200	573 - 200	876 - 100	523 + 300	279 + 400	869 - 200	256 + 300	274 + 700	958 - 100
661 - 400	750 - 500	591 + 200	849 - 100	139 + 500	313 + 300	875 - 300	188 + 700	466 + 500

Extra Challenge: Are these statements true or false?

$211 + 600 > 523 + 300$

$951 - 700 < 676 - 400$

Extra resources



VICTORIA DOCK PRIMARY SCHOOL'S

BIG DEN CHALLENGE

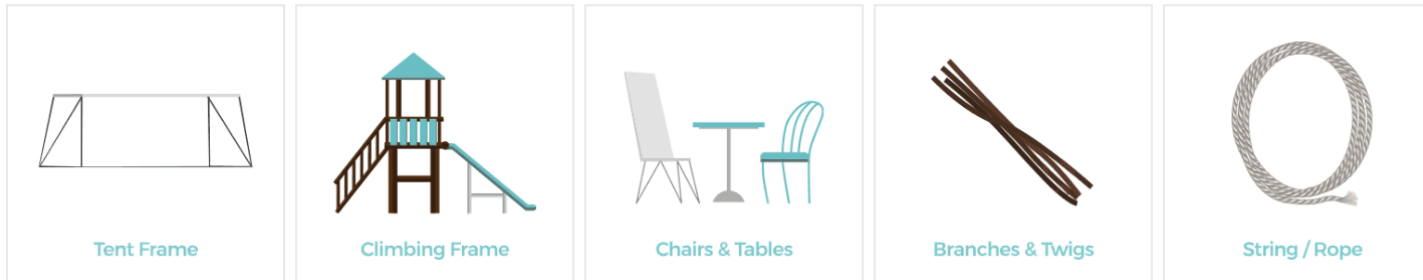
Have a go at making your own den at home. Whether it is indoor or outdoor, use whatever you have around the house (and some adult supervision) to create your own place to relax, paint, work, sleep, read – whatever you want. See below for help and look out for some special certificates towards the end of the week

Outdoor – Den Building

This week's challenges all revolve around making some kind of den. This can be inside or outside. (We can never predict the weather.) Here are some different instructions for making a den at home. Be as creative as you'd like.

This family furniture website has lots of different ideas for making your own den. I particularly love the fairy light idea. Visit <https://www.noaandnani.co.uk/den-building-ideas-for-the-best-dens-ever-i43> for more but below are some things to get you started.

Stuff for the Structure



Shelter & Extras



You'll need something to make your den comfy and cosy!

Use battery or solar lights to decorate

Sweets, popcorn, games and books add fun!

1. Use Ready-Made Structures

If you have family tents or if you have a climbing frame in your back garden, these make excellent ready-made structures to form the basis of your den. You can drape your sheets or tarpaulins over the top and add other structures onto the sides to make giant mansion dens (if you're feeling ambitious).

2. Garden Furniture Fortress

If you're struggling for a structure, garden furniture makes the perfect solution. If you have 4 or 6 garden chairs, try arranging them back-to-back with space in the middle. This provides a support structure for you to drape a sheet or tarpaulin over the top, creating an instant den. Garden tables also make the perfect starter structure; simply drape over a sheet and you've got a cosy hiding place with a ready-made roof.

3. Building with Branches

If you're lucky enough to live near woodland, you can go foraging for fallen branches and twigs to use as your outdoor den structure. Make sure these really are already on the ground, and don't be tempted to remove them from their trees yourself. Your den should not harm the natural world around you. The bigger branches can be leaned up against one another and tied to form a basic den structure, while smaller bendy twigs can be woven between to fill in the walls.

4. Waterproofing

The most challenging element of building outdoor dens is making sure they are waterproof, just in case the heavens open. With any luck you'll get a nice sunny, dry day, but it pays to be prepared. The best things to use for waterproofing your outdoor den are plastic sheets and tarpaulins, as these are completely waterproof and very easy to work with. Or, if you want your den to be completely natural, you can use leaves. The bigger and broader the leaves the better, but make sure these are already on the ground and you're not taking them off living trees. You'll also need lots and lots to make sure your den doesn't leak; try layering up leafy branches and twigs to fill the gaps.

5. Painting Personalisation

If you've created your den walls using cardboard or branches, why not give them a lick of paint to create a colourful, personalised look? You can paint your branches in all kinds of colours or paint yourself your very own front door and some windows if you're using cardboard walls. Just make sure you only do this on a dry day and don't paint anything important like your garden furniture or climbing frames!

6. Something to Sit On

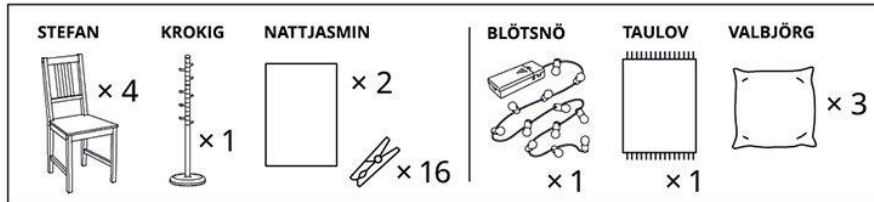
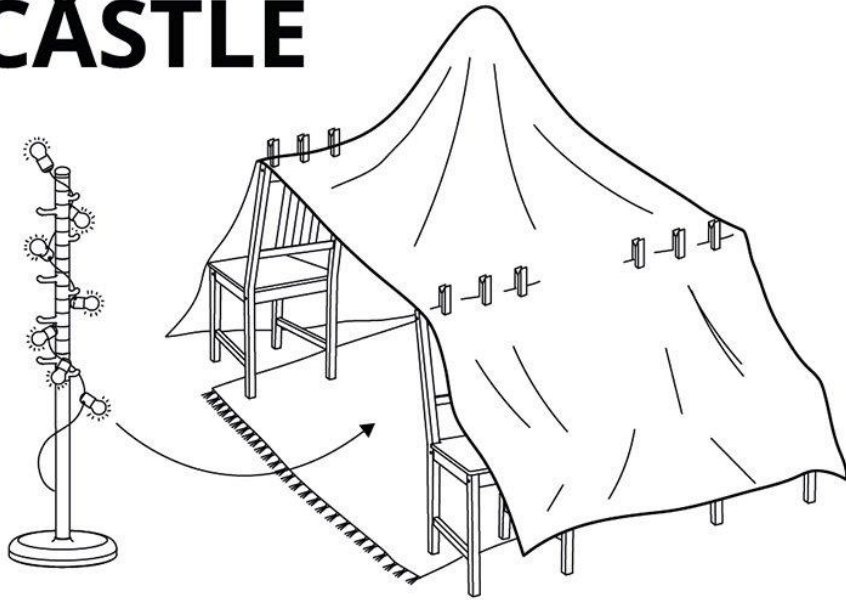
An upturned box or crate makes a surprisingly good seat or table for a little den, especially with an additional cushion or two. Spare pieces of cardboard also make excellent den flooring, providing a thick, clean and surprisingly comfortable layer of protection between you and the ground.

7. Light it Up

To make your outside den prettier and more practical in the dark, try adding battery or solar-powered fairy lights. You can dangle them from the roof of your structure or drape them over the top, or you can lay them out on the ground inside your den for a magical glow.

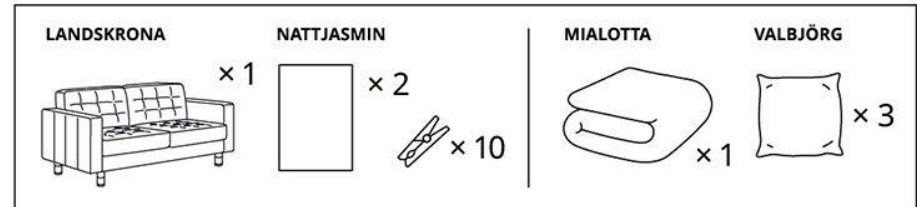
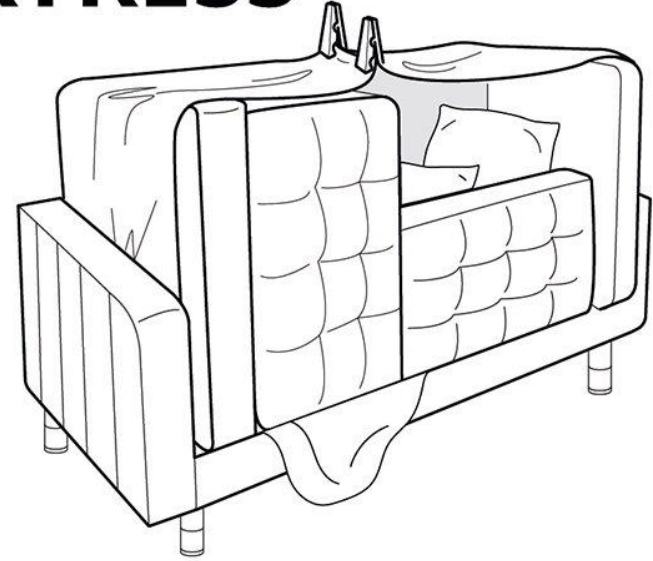
Alternatively, what about these guides from the popular shop, IKEA?

CÅSTLE



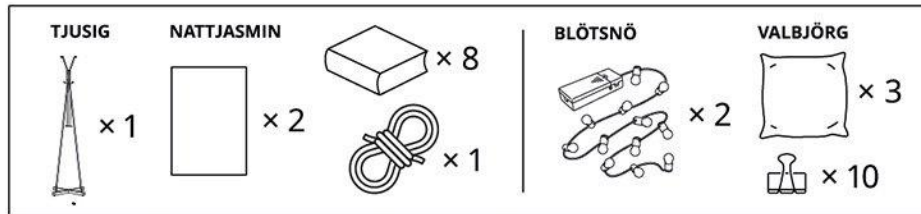
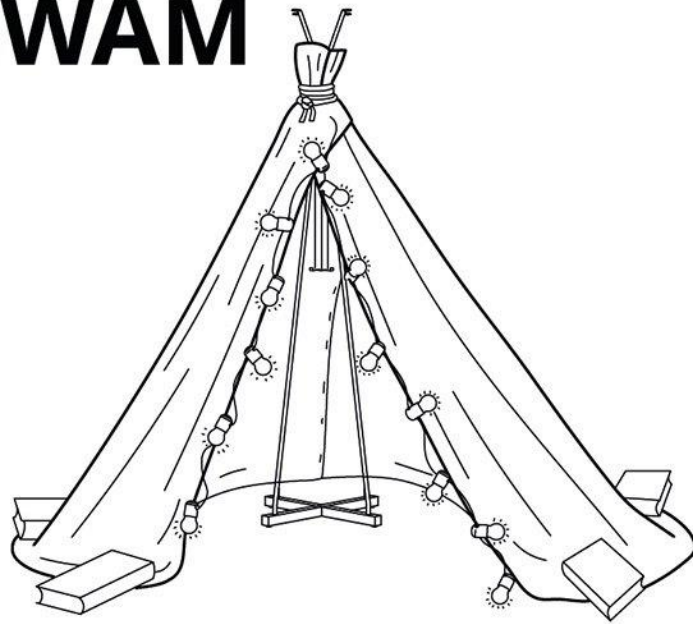
Make sure that the structure is safe. Do not leave children unattended.
The suggested examples are not official IKEA user guides for IKEA products.
If you can't find the products referred to in the instructions, use similar ones.

FÖRTRESS



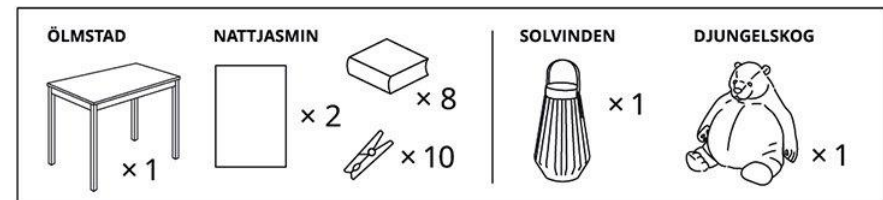
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WIGWÅM



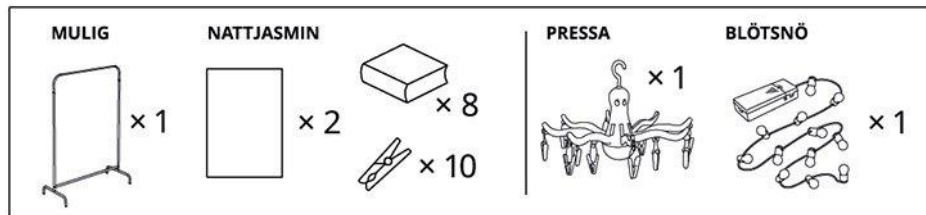
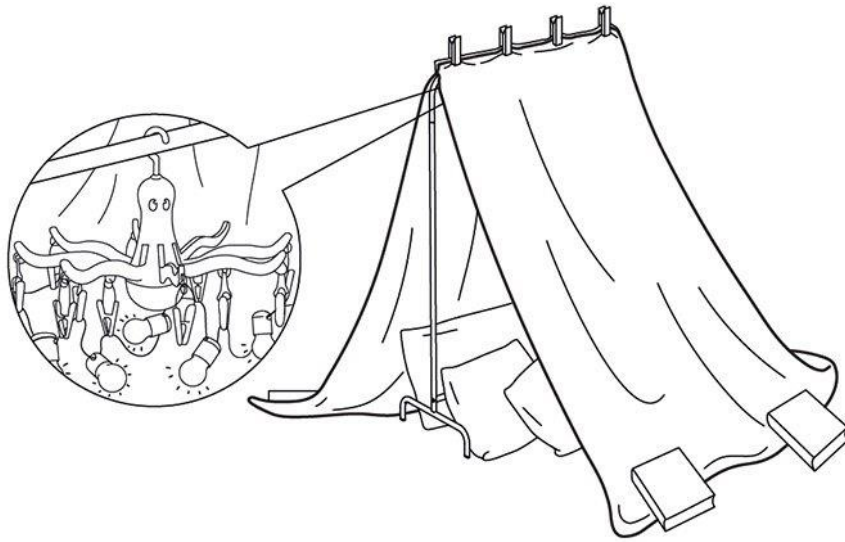
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HÖUSE



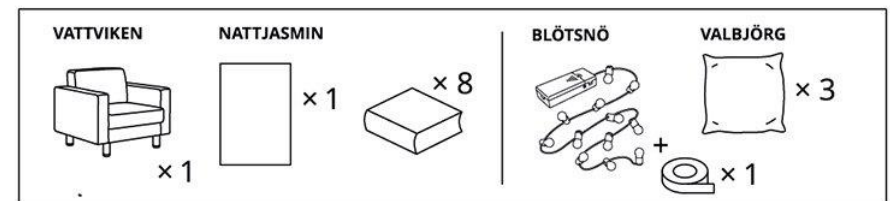
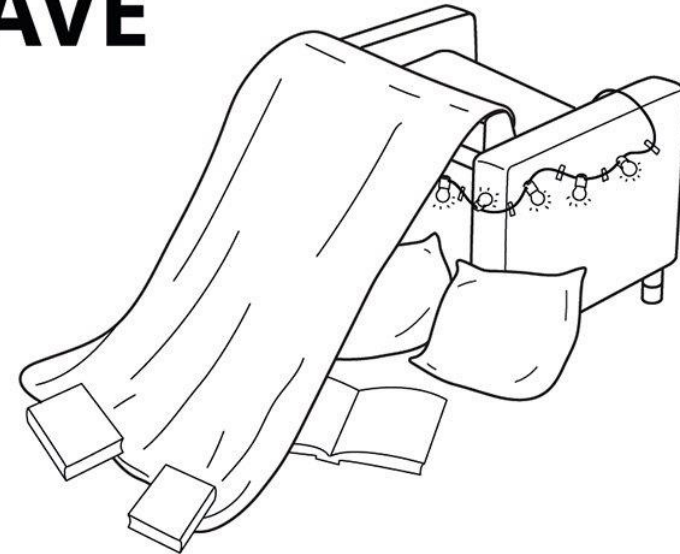
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CÅMPINGTENT



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CÅVE



Make sure that the structure is safe. Do not leave children unattended.
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If you really want to get serious about building a den, check out this final website: <https://www.getoutwiththekids.co.uk/activities/making/building-a-den/>

Send us a photo of your fab new den on Seesaw



Outdoor – Scavenger Hunt

Okay, so you've made a den, right? Great.

Now your challenge is to try to collect as many of these items (below) as possible in your den. Send us a photo of what you collect on Seesaw.



Check them off when you find them to help.

AROUND THE HOUSE SCAVENGER HUNT

FIND SOMETHING:

- | | | | |
|---|--|--|--|
| <input type="checkbox"/> blue | <input type="checkbox"/> that makes a noise | <input type="checkbox"/> to read | <input type="checkbox"/> with a pattern |
| <input type="checkbox"/> with a nose | <input type="checkbox"/> green | <input type="checkbox"/> that smells | <input type="checkbox"/> that holds things |
| <input type="checkbox"/> to sit on | <input type="checkbox"/> to eat with | <input type="checkbox"/> squishy | <input type="checkbox"/> alive |
| <input type="checkbox"/> that closes | <input type="checkbox"/> white | <input type="checkbox"/> orange | <input type="checkbox"/> made of metal |
| <input type="checkbox"/> turns on and off | <input type="checkbox"/> that floats | <input type="checkbox"/> made of plastic | <input type="checkbox"/> crooked |
| <input type="checkbox"/> shiny | <input type="checkbox"/> red | <input type="checkbox"/> with wheels | <input type="checkbox"/> that opens |
| <input type="checkbox"/> round | <input type="checkbox"/> rough | <input type="checkbox"/> with paws | <input type="checkbox"/> yellow |
| <input type="checkbox"/> to write with | <input type="checkbox"/> you can see through | <input type="checkbox"/> black | <input type="checkbox"/> soft |
| <input type="checkbox"/> you can eat | <input type="checkbox"/> with eyes | <input type="checkbox"/> that lights up | <input type="checkbox"/> that sinks |
| <input type="checkbox"/> with buttons | <input type="checkbox"/> brown | <input type="checkbox"/> square | <input type="checkbox"/> tells time |
| | | <input type="checkbox"/> purple | <input type="checkbox"/> you can wear |

Outdoor – Make a crown

Using things you can find around the house or garden, let's make a crown fitting of what an amazing king or queen you are. Have a look at these instructions from the Royal Horticultural Society to help you get started.

Don't forget to show us what you make, on Seesaw.



What you'll need

A strip of card about 10cm wide, that is long enough to wrap around your head with a slight overlap

Double sided sticky tape

- Scissors

- Collecting bag

What to do

1. To make the crown cut a strip of card 10cm wide and measure it around your head to make sure that it is long enough. Put the piece of card on a flat surface and using the double sided sticky tape place a line of tape in the middle along the whole length of the card.
2. Go out into your garden or for a walk in your local park and look for lovely petals and leaves that have fallen to the ground – don't pick off the plants! Carefully put them in your collecting bag and take them home.
3. Take the top layer of the sticky tape away so that it feels sticky to touch and design and decorate your crown by placing petals and leaves on to the card. Leave a space at each end with no petals and leaves, so that you can stick the ends together when you have finished.
4. Ask a grown up to help measure the card round your head so that it fits and press the ends together. Why not have a lovely picnic in your garden wearing your summer crowns?



School Games Active Championships

Developed by Hull Active Schools (HAS), the School Games Active Championships are a fun, engaging, national activity campaign for children across the UK to keep active. Parents can download the TopYa! App and sign up with our school's unique code: **28281**.

Children can practise the free active challenges, submit their best performance video and receive free personal coaching feedback from the experienced virtual coaches. For each video submitted, children can earn points, climb the leaderboard and even win prizes.

Parents, check out this video tutorial for more information:
<https://vimeo.com/423604569>

Answers

English – What is a Preposition? (page 3)

A **preposition** is a type of word used to express time, place or cause, for example: after, under, over.

Question 1 – This question involves recognising which **preposition** has been used in this sentence.

'Among' is the **preposition** in this sentence and has been used to express place as it tells us whereabouts Phoebe and Gunther darted.

Question 2 – This question involves recognising which sentences use **prepositions** correctly.

Sentence A uses the **preposition** 'without' which expresses time in this sentence.

Sentence B uses the **preposition** 'through' which expresses place in this sentence

Sentence C uses the **preposition** 'against' which expresses place in this sentence.

Sentence D uses the **preposition** 'behind' which expresses place in this sentence.

Sentence C has not used the **preposition** 'against' correctly because the order of the words is incorrect. The sentence should read: Janice leant against the wall to rest.

Question 3 – This question involves checking which child's statement(s) is/are correct.

Ross and Rachael are both correct as the **prepositions** they have both suggested, could replace the **preposition** 'in' and the sentence will still make sense, as shown below.

Emma ran as fast as she could **across** the field.

Emma ran as fast as she could **through** the field.

In the sentences above, both **prepositions** have been used to express place.

English – Prepositional Phrases (page 5)

A **prepositional phrase** is a group of words which contains a **preposition** (see definition on page 4) followed by a noun, pronoun or noun phrase but no verb. For example: under the bed.

Question 1 – This question involves matching three **prepositional phrases** to the correct sentence starters. Once they are fully formed, the sentences must make sense.

The little girl ran **across the park**.
The monkey climbed **off the branch**.
The robber hid **behind the shed**.

At first glance, the **prepositional phrase** 'behind the shed' could be used after 'the little girl ran' too. However, given the context of 'the robber hid', it is more appropriate to use 'behind the shed' with this sentence starter. Also, 'The robber hid across the park' would not make sense.

Question 2 – This question involves identifying which **prepositional phrase** could complete the given sentences.

The cat squeezed **between the two girls**.
Robert was sat **between the two girls**.

This **prepositional phrase** completes both sentences because it explains who the cat squeezed between and where Robert was sat in more detail.

To check our answer, we could try using the alternative **prepositional phrases** - for example: 'Robert was sat following the lady.' This sentence does not make sense.

Question 3 – This question involves rearranging seven words and placing them in a logical order.

- We can tell that the sentence begins with the pronoun 'They' because it begins with a capital letter.
- A verb is most likely to follow a pronoun. The only verb that is listed is 'built'.
- The determiner and noun which follow each other are most likely to be 'the' and 'motorway'.
- The final three words make up the **prepositional phrase**, which is 'through the hillside'.

The final sentence is: **They built the motorway through the hillside.**

Famous Pirates

Answers

1. Which of these pirates was born first?
Captain Blackbeard was born first.
2. '...that the American people became very intolerant of all pirates.'
What do you think the word intolerant means in this sentence?
In this sentence, intolerant means that American people disliked/wouldn't put up with/ did not accept/hated pirates.
3. How are Captain Blackbeard and Black Bart similar?
Accept any similarity given or inferred in the text, e.g.
 - They are both men.
 - They are both pirates.
 - They both changed their names.
 - They were both killed.
4. Do you think that male pirates respected Anne Bonny? Why?
Accept either yes or no as an answer providing that a reasonable justification is given to support the answer, e.g.

Yes

 - Because she was renowned as an excellent fighter.
 - Because she dressed and acted like men and they may have seen her as one of them.
 - Because she showed she was brave by running away at the age of sixteen.

No

 - Because many men did not respect women as equals at the time when Anne was alive.

Compare angles

1 Here are some angles.

a) Circle the angle that is greater than a right angle.



b) Circle the angle that is less than 90 degrees.



2 Draw three different angles that are less than a right angle.

Various answers.

Compare answers with a partner.
Complete the sentence.

These are all examples of acute angles.

3 Draw two different obtuse angles.

Various answers.

Compare answers with a partner.

Complete the sentence.

Obtuse angles are greater than 90 degrees

but less than 180 degrees.

4 Is the angle between the hands of the clock acute or obtuse?

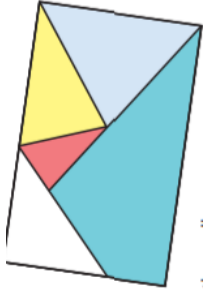


acute

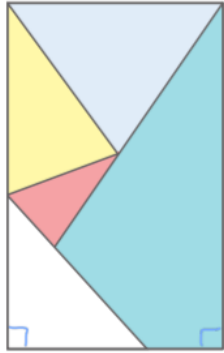


obtuse

5 Here is a piece of wallpaper.

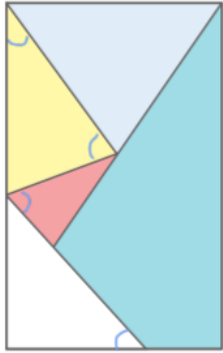


a) Mark two right angles on the wallpaper.



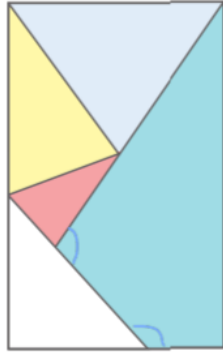
e.g.

b) Mark four acute angles on the wallpaper.



e.g.

c) Mark two obtuse angles on the wallpaper



e.g.

6 Write $<$, $>$ or $=$ to compare the sizes of the angles.



$<$



$<$



$=$

7 Draw a shape that has one right angle, two acute angles and one obtuse angle.

e.g.



Compare answers with a partner.

What is the same and what is different about your shapes?

Horizontal and vertical

1 Circle the line that is horizontal.



2 Circle the line that is vertical.



3 Use a ruler to draw the lines.

a) Draw a horizontal line 5 cm long.



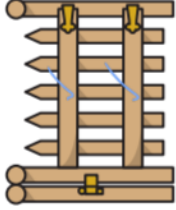
b) Draw a line that is not horizontal or vertical.



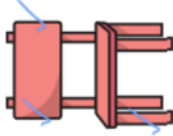
c) Draw a vertical line 5 cm long.



4 Tick two horizontal lines on the gate.

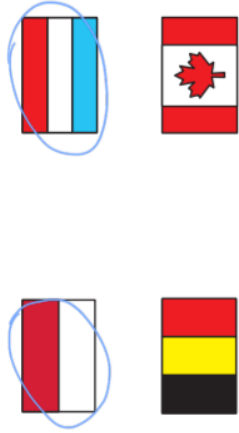


5 Tick three vertical lines on the chair.



6 Here are some flags.

a) Circle the flags that have horizontal stripes.



b) Circle the flags that have vertical stripes.



c) Is the statement true or false?

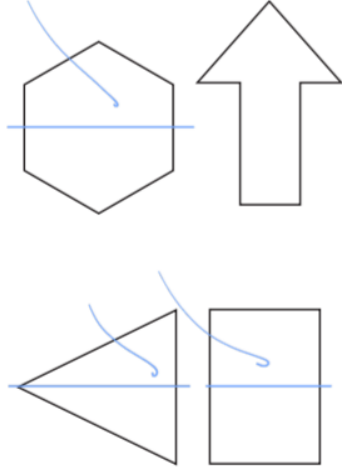
This flag has vertical and horizontal stripes.



false

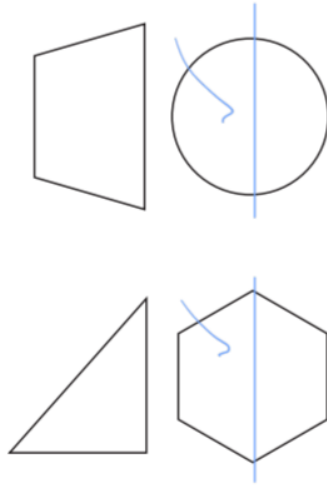
7 Tick the shapes that have a vertical line of symmetry.

Draw on the shapes to show the line of symmetry.



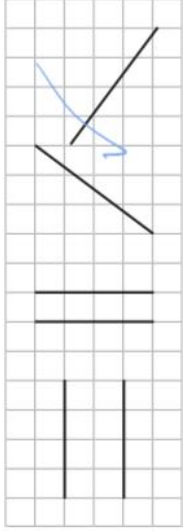
8 Tick the shapes that have a horizontal line of symmetry.

Draw on the shapes to show the line of symmetry.



Parallel and perpendicular

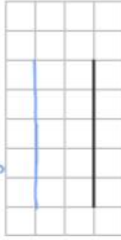
1 Tick the pairs of lines that are not parallel.



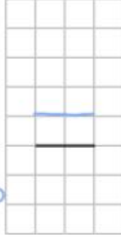
2 Here are two lines.

Draw a line that is parallel to each.

a) e.g.



b) e.g.

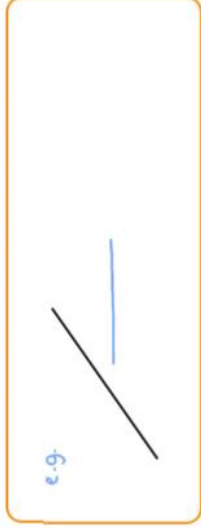


3 Amir says that the lines are not parallel because they are different lengths.

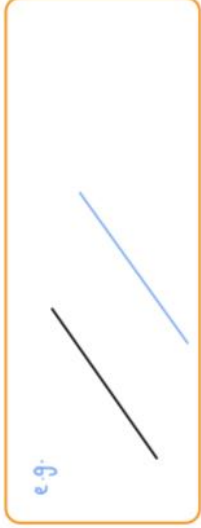


Is Amir correct? No
Why?

4 a) Here is a line. Draw a line that is not parallel to it.



b) Here is a line. Draw a line that is parallel to it.



5 Here are two lines.

Draw a line that is parallel to each.

a)



b)



Talk to a partner about how you did it.



6 Tick the perpendicular lines.

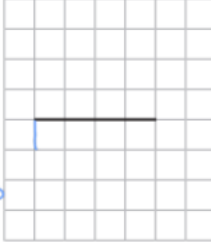


7 Here are two lines. Draw a line that is perpendicular to each.

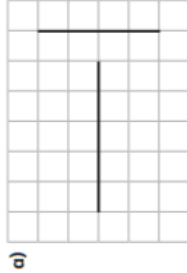
a) e.g.



b) e.g.



8 Alex has drawn some lines on grids.



a) Which two pairs of lines are parallel?

A and C A D and E

b) Which two pairs of lines are perpendicular?

A and B A B and C

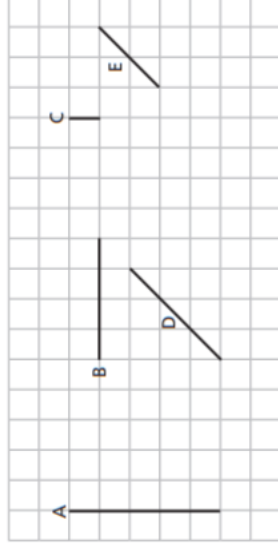


The lines are parallel because they don't meet.

Do you agree with Alex? No

Talk about your answers with a partner.

9 Five lines are drawn on the grid.



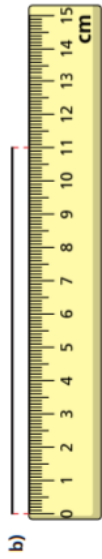
Do you agree with Alex? No

Draw accurately

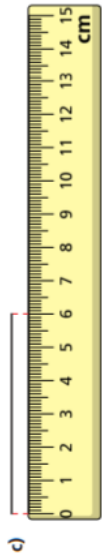
1 How long is each line?



8 cm

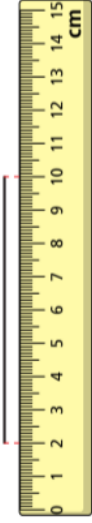


11 cm



6 cm

3 Dani says the line is 10 cm long.



a) What mistake has Dani made?

She hasn't started measuring from 0

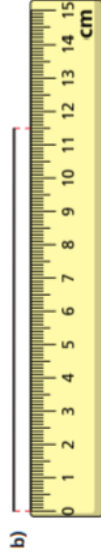
b) How long is the line?

8 cm

4 What is the length of each line in millimetres?



62 mm



115 mm

5 Use a ruler to draw the lines.

a) Draw a line 8 cm long.



b) Draw a line 80 mm long.



What do you notice about the lines you have drawn?
Why is this?

They are the same length because 8 cm = 80 mm

6 Use a ruler to help you answer the questions.

a) Draw a 4 cm by 4 cm square.



7 Draw a rectangle 8 cm long and 32 mm wide.



b) Measure the length of the diagonal.
Give your answer in millimetres.

57 mm

8 a) Make a sketch of the triangle.



b) Use your drawing to work out the perimeter of the triangle.

12 cm

Pirate Themed Mental Calculations Mosaic **Answers**

Solve the calculations to reveal the hidden picture. Each answer has a special colour.

Black = $0 - 99$ White = $100 - 249$ Blue = $250 - 399$ Yellow = $400 - 549$ Green = $550 - 699$ Red = $700 - 849$ Purple = $850 - 999$

$784 - 500$	$118 + 200$	$306 + 400$	$915 - 200$	$142 + 600$	$708 - 400$	$884 - 500$	$763 - 500$	$624 - 300$
$226 + 100$	$219 + 500$	$823 - 123$	$362 - 200$	$105 + 100$	$456 + 300$	$691 - 400$	$509 - 200$	$799 - 400$
$918 - 600$	$256 + 200$	$598 - 100$	$763 - 700$	$622 - 400$	$879 - 100$	$139 + 200$	$807 - 500$	$992 - 600$
$571 - 300$	$711 - 300$	$322 + 200$	$749 - 500$	$117 + 100$	$542 + 200$	$582 - 300$	$792 - 500$	$248 + 100$
$111 + 200$	$999 - 500$	$442 - 400$	$604 + 100$	$422 + 400$	$482 + 300$	$211 + 600$	$544 - 200$	$676 - 400$
$678 - 300$	$826 - 500$	$206 + 100$	$518 + 200$	$615 + 200$	$983 - 200$	$506 + 300$	$164 + 200$	$711 - 400$
$867 - 600$	$951 - 700$	$420 + 300$	$908 - 200$	$637 + 200$	$159 + 400$	$981 - 400$	$147 + 600$	$159 + 100$
$706 - 400$	$854 - 600$	$662 + 100$	$384 + 400$	$925 - 300$	$213 + 400$	$156 + 400$	$465 + 500$	$764 - 400$
$158 + 200$	$573 - 200$	$876 - 100$	$523 + 300$	$279 + 400$	$869 - 200$	$256 + 300$	$274 + 700$	$958 - 100$
$661 - 400$	$750 - 500$	$591 + 200$	$849 - 100$	$139 + 500$	$313 + 300$	$875 - 300$	$188 + 700$	$466 + 500$

Extra Challenge: Are these statements true or false?

$211 + 600 > 523 + 300$ **False**

$951 - 700 < 676 - 400$ **True**