Number and Place Value
Challenge Cards

twinkl

1

Can you write these numbers in words?

485

928

711

637

2

Each row is a three-digit number. Insert the missing digits to complete each row so that the numbers are in order from smallest to largest.

1 5 ☐

1 ☐ 5

☐ ☐ 3

☐ 2 8

☐ 5 ☐

☐ 0 9

3

How many different ways can you represent this number?

782

4

How many multiples of 8 can you make using these digits? You can only use each digit once in each number.

6   4   8

5

Insert one of the following symbols to make each comparison number sentence correct: < > =.

$98 ÷ 8 \boxed{} 4 × 4$

$15 + 9 \boxed{} 50 - 26$

ninety-two $\boxed{} 50 + 39$

6

Solve the following questions.

a. Akara has some pound coins. He says, 'The amount is a two-digit number. The tens digit is odd. The tens digit is a multiple of 3. The ones digit is seven less than the tens digit.' How many pound coins does Akara have?

b. Gaia has some pound coins in her piggy bank. She says, 'The amount is a two-digit number. The tens digit is greater than the ones digit. The total of the digits is ten. How many pound coins could she have?

7

How many different ways can you partition this number?

286

8

How many three-digit numbers can you make using the following digits? Find 10 more or 10 less than each number.
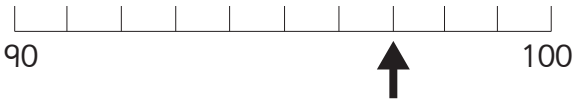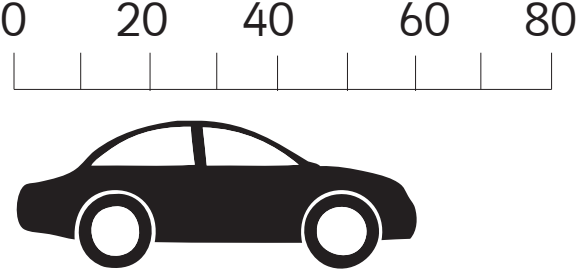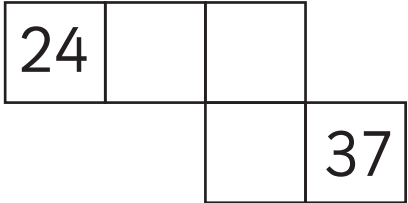
2   5   9   4

Answers

1. four hundred and eighty-five
   nine hundred and twenty-eight
   seven hundred and eleven
   six hundred and thirty-seven

2. Multiple answers. The numbers need to be in order smallest to largest.

3. Multiple answers.

4. 4 multiples of 8 can be made: 64, 48, 864, 648.

5. <
   =
   >

6. a. 92
   b. 91, 82, 73, 64

7. Multiple answers.

8. Multiple answers.

Year 3 Mental Maths

Name: _____   Date: _____

1. 90 ⬆ 100 - - - - - - - - - -	9. **p** 30p
2. **kg** 5kg	10. **g** 1 kg
3. 38 42	11. 0 20 40 60 80 .... cm
4.	12. 24 ☐ ☐ ☐ 37
5.	13. ....
6. 2 19 1	14. 3 6 9 10 12 15
7. 20	15. 17p
8.	

Block 1 Test 4

Year 3 Mental Maths (Block 1)

Listen carefully to each question. I will read each question twice before you write your answer.

5 second response time

1. What number is shown by the arrow on the number line? (97)
2. There are 5kg of oranges in 1 box. How many kg of oranges are there in 3 boxes? (15kg)
3. A number lies between 38 and 42. What could it be? (39, 40 or 41)
4. What is 45 to the nearest 10? (50)
5. How many sides has a pentagon? (5)
6. What is 2 plus 19 plus 1? (22)
7. Write two numbers that total 20. (e.g. 0, 20)
8. Multiply 6 by 4. (24)
9. 30 pence is shared equally among three children. How much does each child get? (10p)
10. How many grams are there in 1kg? (1000g)
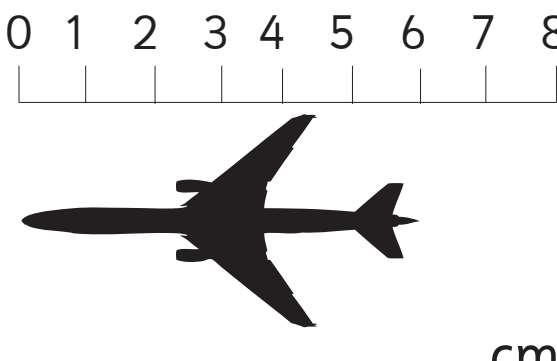
10 second response time

11. What is the approximate length of the toy car? (60cm)
12. This is part of a number square. Fill in the missing numbers. (25, 26, 36)
13. On your sheet is a shaded rectangle. How many rectangles can you count altogether? (5)
14. Ring the number which does not belong. (10)
15. Which 3 coins make 17p? (10p, 5p, 2p)

Test 4

Year 3 Mental Maths

Name: _____   Date: _____

1.	9.
2.	10. m │ 1 km
3. 25 31	11. 0 1 2 3 4 5 6 7 8 .... cm
4.	12. 1 centimetre 1 millimetre 1 metre 1 kilometre
5.	13. 3 0 6
6. 5 2 13	
7.	14.
8.	15. cm │ 35cm 41cm

Year 3 Mental Maths (Block 1)

Listen carefully to each question. I will read each question twice before you write your answer.

5 second response time

1. Write one hundred and sixty three in figures. (163)
2. What number is one less than one hundred and twenty? (119)
3. Write a number in the box so that the 3 numbers are in order.
4. What is 24 to the nearest 10? (20)
5. What name do we give to a six-sided shape? (hexagon)
6. Add 5, 2 and 13. (20)
7. Half of 36. (18)
8. What is 8 times 5? (40)
9. Is 35 a multiple of 3? (no)
10. How many metres are there in a kilometre? (1000)

10 second response time

11. What is the appoximate length of the toy plane on your sheet? (6cm)
12. Look at the lengths on your sheet. Put a ring around the shortest length. (1 millimetre)
13. What is the greatest number you can make from these digits? 3, 0, 6 (630)
14. What shape is the face of a cube? (square)
15. Two rolls of tape are 35cm and 41cm long. What is the difference in their lengths? (6cm)

Test 3

Real-life Maths

Which 5 coins make 74p?

What other amounts can you make with five different coins?

Year 3

Real-life Maths

It costs 75p for a child to swim.

How much does it cost for two children?

Year 3

Real-life Maths

Anna has a 50p coin and three 20p coins.
She pays 90p for a ride on the Big Dipper.

How much does she have left?

Year 3

Real-life Maths

A set of paints cost £3.
Parveen saves 20p a week.

How many weeks must she save for in order to buy the paints?

Year 3

Real-life Maths

Dad bought three packets of cornflakes at 70p each.

What was his change from £3?

Year 3

Real-life Maths

Winston offered two silver coins to pay for a 17p toy.

Investigate how much change he got.

Year 3

I think of a number, then subtract 12.

The answer is 26.

What was my number?

A spider has 8 legs. How many legs do 5 spiders have?

Now work out how many legs 6 spiders have.

A box holds 35 nuts.
Hows many nuts are left if you eat 17?
How many nuts are there in 3 boxes?
How many boxes are needed to hold 70 nuts?

There are 19 books on the top shelf and 32 books on the bottom shelf.
24 of the books are removed.
How many books are left?

There are 18 apples, 21 pears and 19 bananas in some boxes of fruit.

How many pieces of fruit are there altogether?

I think of a number, double it and add 5.

The answer is 35.

What was my number?

Maths Challenge Cards

Are you a maths whizz ?

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5 ⭐ On your table how many people have names with exactly 5 letters?

⭐ How many people have names with less than 5 letters?

⭐ How many people have names with more than 5 letters?

⭐ Show this information in a bar chart.

Year 3

Maths Challenge Cards

Are you a maths whizz ?

⭐ Read the scale and write the weight in grams.

⭐ Is this more than 1Kg?

⭐ Are you heavier or lighter than the scale? How can you check?

Year 3

Maths Challenge Cards

Are you a maths whizz ?

⭐ 5 children can fit into a car. How many cars are needed to take 27 children to sports day?

⭐ 3 more children decide to attend the sports day. Will they need another car?

⭐ True or False? 7 cars are needed to take 36 children.

Year 3

Maths Challenge Cards

Are you a maths whizz ?

⭐ In a pack of 20 pencils, 1/4 of them are blue. How many pencils are blue?

⭐ 1/2 of them are yellow.
How many pencils are yellow?

⭐ The rest of the pack of pencils are green.
What fraction of the remaining pencils are green?

Year 3

1) Read Hamam's Story and complete the sheet below.

Hamam's Story

Hamam at the Kara Tepe refugee camp.
Photo: ActionAid

Hamam is 10-years-old and is from Iraq. His hometown has been severely damaged by war. This war has lasted several years and it's no longer safe for the people who live there, especially for children.

Hamam's family, including his one-year-old baby sister, managed to escape Iraq. But they then had to face a long, hazardous boat voyage.

Hamam said: **"I was really scared going into the boat. It was our first time ever going onto the sea. The boat was filling up with water."**

Worried and afraid, cold and tired, Hamam's mother offered to take them back home. They were faced with a choice to either return to a country at war or to take this perilous boat journey.

Hamam remained brave: neither the sea nor his fear could change his mind.

"My mum tried to comfort me. She said: 'Don't be scared, we will go back. But I said: 'No, mum, I don't want us to go back'."

Hamam and his family made it across safely and are now staying in Kara Tepe refugee camp on the Greek island of Lesvos. Hamam's mother, Hanaa, spoke about how relieved she is to see her son enjoying life again:

"In Iraq, even when the children play, they play at war because their childhood is filled with nothing but war", she says.

Happily, Hamam and his family are now safe. He is enjoying playing with other children his age and is ready to start a new life with his family.

Hamam and other Iraqi children at the Kara Tepe refugee camp.
Photo: George Makkas/Panos Pictures/ActionAid

What do we know about Hamam's story?

People/characters	Setting

Three main events

1.

2.

3.

Problems	Resolution

2) A day in the life of a refugee

Imagine you are a refugee and have to leave your home and travel to another country. Write a diary entry to show what has happened and how you are feeling.

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

3) Description

Look at this beautiful springtime scene. Can you write four sentences about the lovely things you can see, using an appropriate preposition? Use the bank of prepositions below to help you.

| on | next to | through | beside | beneath | over | behind |

4) Reading comprehension. Read the extract and answer the questions.

The Wind in the Willows by Kenneth Grahame

The Mole had been working very hard all the morning, spring-cleaning his little home. First with brooms, then with dusters; then on ladders and steps and chairs, with a brush and a bucket of white paint; till he had dust in his throat and eyes, and splashes of white paint all over his black fur, and an aching back and tired arms. Spring was in the air above and in the earth below and even in his dark and simple little house. It was a small wonder, then, that he suddenly threw down his brush on the floor, said, "Bother!" and "O blow!" and also "Hand spring-cleaning!" and ran out of the house without even waiting to put on his coat. Something up above was calling him and he made for the steep little tunnel that would take him nearer to the sun and air. So, he scraped and scratched and scrabbled, and then he scrabbled and scratched and scraped, working busily with his little paws and muttering to himself, "Up we go! Up we go!" till at last, pop! His snout came out into the sunlight and he found himself rolling in the warm grass of a great meadow.

"This is fine!" he said to himself. "This is better than painting!" The sunshine felt hot on his fur, soft breezes stroked his heated brow, and after the loneliness of the cellar he had lived in so long, the song of the happy birds fell on his ears almost like a shout. Jumping off all his four legs at once, in the joy of living and the delight of spring without its cleaning, he chased his way across the meadow till he reached the hedge on the other side.

1. Name three things Mole did during his spring-cleaning.
   _____   _____   _____

2. 'Something above was calling him...'
   What do you think was calling Mole?
   _____
   _____

3. Why do you think the author repeats 'scraped and scratched and scrabbled'?
   _____
   _____

4. Why do you think the sound of the birds was 'almost like a shout' to Mole? Explain your answer.
   _____
   _____

5) Spellings

Practise your spellings and ask an adult to test you at the end of the week. Practise the number of spellings that you usually have.

Look, LOOK say, cover, write, check..........

Weekly spellings	Write and check	Write and check	Write and check	Write and check	Write and check
basically					
frantically					
dramatically					
magically					
musically					
happily					
angrily					
cheekily					
clumsily					
dreamily					

6) Read, read, read! Please continue to read lots at home. Read a range of books

and get adults to ask you questions about what you have read so that you can show your understanding.

Science Home Learning Week 1

1) Shadow puppets

Make your own puppets and create shadows with them. Investigate what happens when you move a torch closer to the puppets and further away from the puppets. Experiment holding the torch at different angles. Do the shadows get longer or shorter? Draw and write and about what you have found out.
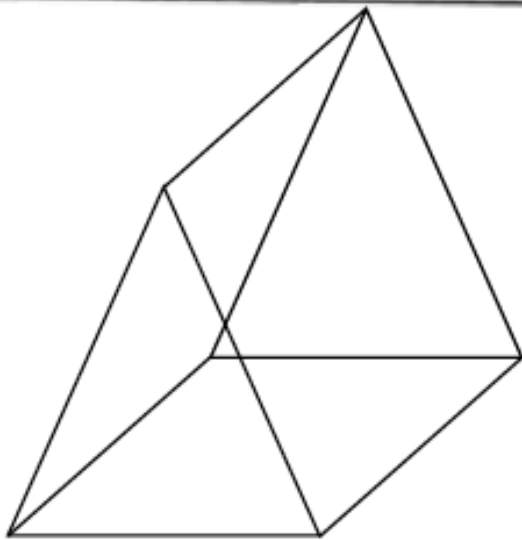
2) Light Rays

We have learnt that light travels in straight lines. Draw a diagram to show how light rays travel from the sun and how shadows are created when the light rays are blocked. Write captions to explain your diagram.
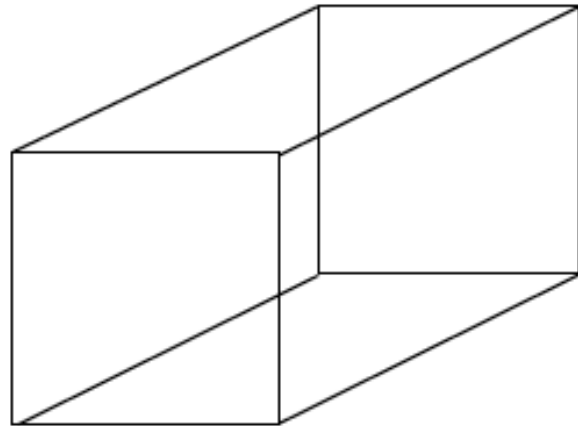
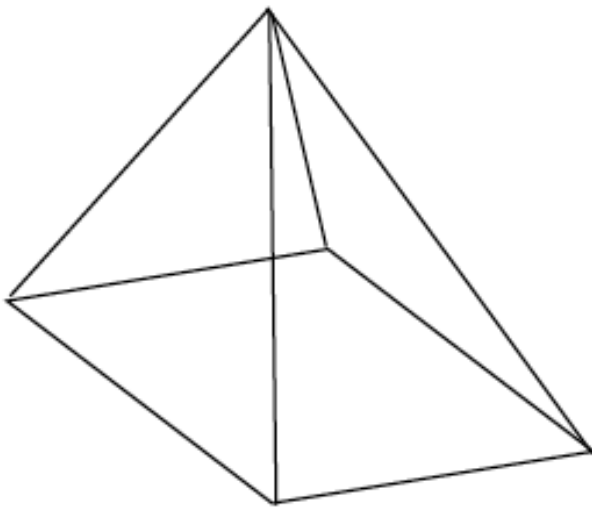## DT Home Learning Week 1

1) Strong structures

Have a go at making some of these 3D structures. You could use pipe cleaners, straws, card, paper, wire etc.
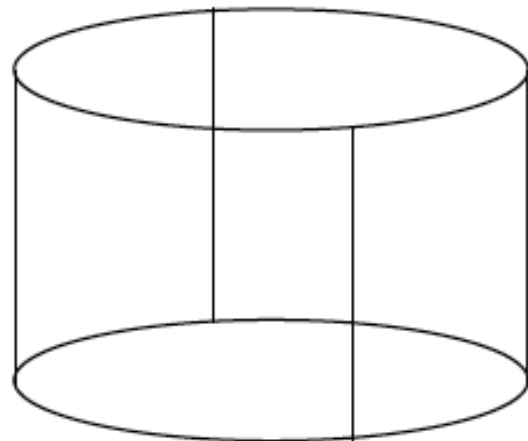
Triangular Prism

Cuboid

Pyramid

Cylinder

Which of these do you think is strongest?

How could you reinforce these structures to make them sturdier?

1) Complete the task below before you look at the next page.

Your task:

Draw a picture of one of these people:

- footballer
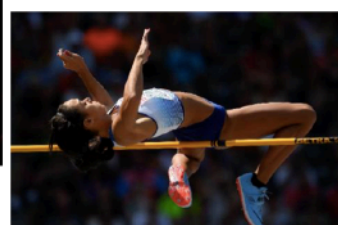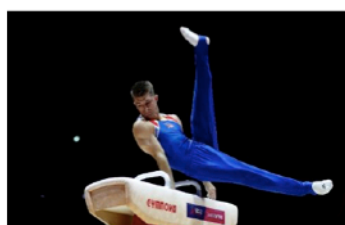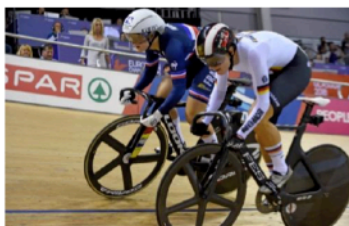- ballet dancer
- swimmer
- gymnast
- runner

Around the outside of your picture, write some words that describe the person you have drawn (e.g. strong, fit, flexible etc.)

Think about the task you completed. Did you stereotype any of these people?

A **stereotype** is an idea or belief many people have about a thing or group that is based upon how they look on the outside, which may be untrue or only partly true. **Stereotyping** people is a type of prejudice because what is on the outside is a small part of who a person is.

Lots of us are in the habit of stereotyping but it is something we can work on to do less! Have a look at the images below. Do any of them surprise you? Discuss with a partner what stereotypes exist and how we can challenge them.

1) Read the powerpoint about Maurits Escher. Do your own research to find out about Maurits Escher and his artwork. Perhaps print or copy some of his art and write about why you like it or dislike it. Write about what tessellation is.

RE

Think back to the stories from The Bible that we have learnt about this term.
First, Jesus feeding the five-thousand people with two fish and five loaves of bread and then the story of Jesus turning water into wine at the wedding.

1. Are you able to act out one of the stories? You can use teddies, dolls, and family members to help you!

2. Both of these stories talk about the theme of sharing. Why do you think sharing is important? How can we share more in our everyday lives?

Feeding the five-thousand, Luke 9:10-17

Late in the afternoon the Twelve came to him and said, "Send the crowd away so they can go to the surrounding villages and countryside and find food and lodging, because we are in a remote place here." **13** He replied, "You give them something to eat."They answered, "We have only five loaves of bread and two fish—unless we go and buy food for all this crowd." **14** (About five thousand men were there.) But he said to his disciples, "Have them sit down in groups of about fifty each." **15** The disciples did so, and everyone sat down. **16** Taking the five loaves and the two fish and looking up to heaven, he gave thanks and broke them. Then he gave them to the disciples to distribute to the people. **17** They all ate and were satisfied, and the disciples picked up twelve basketfuls of broken pieces that were left over.

Turning water into wine, John 2:1-11

On the third day a wedding took place at Cana in Galilee. Jesus' mother was there, **2** and Jesus and his disciples had also been invited to the wedding. **3** When the wine was gone, Jesus' mother said to him, "They have no more wine." **4** "Woman,why do you involve me?" Jesus replied. "My hour has not yet come." **5** His mother said to the servants, "Do whatever he tells you." **6** Nearby stood six stone water jars, the kind used by the Jews for ceremonial washing, each holding from twenty to thirty gallons. **7** Jesus said to the servants, "Fill the jars with water"; so they filled them to the brim. **8** Then he told them, "Now draw some out and take it to the master of the banquet."They did so, **9** and the master of the banquet tasted the water that had been turned into wine. He did not realize where it had come from, though the servants who had drawn the water knew. Then he called the bridegroom aside **10** and said, "Everyone brings out the choice wine first and then the cheaper wine after the guests have had too much to drink; but you have saved the best till now." **11** What Jesus did here in Cana of Galilee was the first of the signs through which he revealed his glory; and his disciples believed in him.