# Home Learning Pack

## Year 5

**Week 8**
15/06/2020

Classroom secrets KIDS

# Monday – Understand Percentages

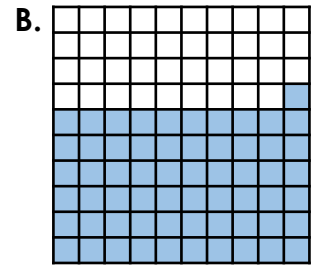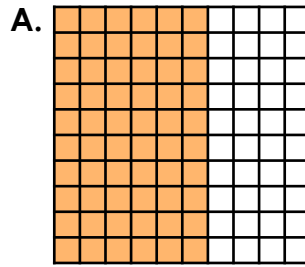## 1. Match the grids to the correct percentages.

A. 70%
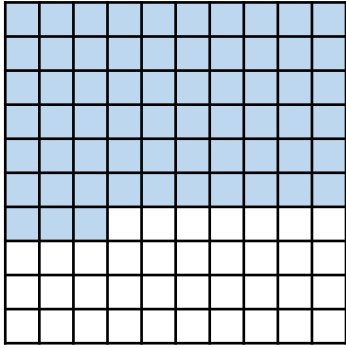
B. 60%

C. 63%

## 4. Circle the odd one out.

A.

B.

C.

D. 60%

Explain your reasoning.

## 2. In each box, write the percentage represented by the grids below.

A.

B.
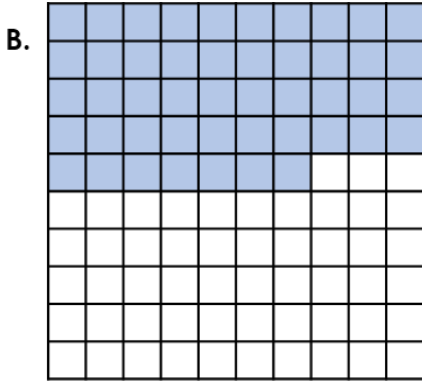
## 5. Order the values from largest to smallest by placing the letters in the boxes below.

A. 64 parts per 100

B. 38%

C. 7 parts out of 10

D. 90%

E. 5 parts per 10

F. 91 parts out of 100

## 3. Colour 80% of each grid below.

A.

B.
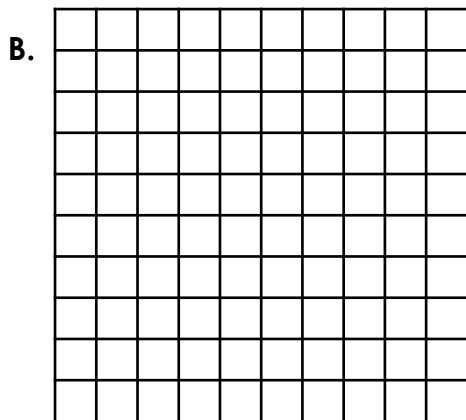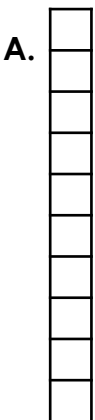
## 6. Kat and Jake are shown a bar model.

Kat says, 3% is shaded.

Jake says, 30% is shaded.

Who is correct? Convince me.

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# Monday – What Does this Word or Phrase Suggest?

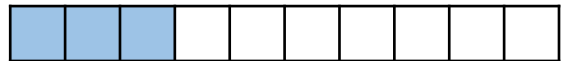Brrring! The school bell rang out sharply across the playground, announcing the start of the day. Jackson took a deep breath and glanced towards the door. Well, this was it. His first day at his new school. He scanned the playground quickly, in the hope of spotting just one familiar face; he recognised no one. He was going to have to face this one all on his own. He took another deep breath and set off for the door. He would be fine... wouldn't he?

Jackson wandered hesitantly along the corridor, unsure of where he was going. People scrutinised him as he went; he looked and felt like a fish out of water. It wasn't long before an enormous, man-sized boy blocked his path. This couldn't be good, surely? Jackson swallowed hard and allowed his eyes to take in the sight of the boy's dirty, battered trainers; the dark grey trousers which were ripped at the knees; the bright red jumper which stretched around the thick arms and broad shoulders of its occupant, before finally reaching a rather surprising face. He was greeted by bright, twinkling eyes and a wide smile which seemed to spread from ear to ear.

"You must be Jackson," said the boy-giant in a deep but kindly voice. "My name's Thomas, but my friends call me Tiny...I'm your settling in buddy," he added with a wink.

"Nice to meet you, Tiny," replied Jackson with a relieved smile. Maybe this wasn't going to be so bad after all.

1. 'He scanned the playground...' What does the word 'scanned' suggest about the way Jackson was looking?

_____

_____

2. '...he looked and felt like a fish out of water.' What does this suggest about how Jackson was feeling?

_____

_____

3. 'Jackson wandered hesitantly along the corridor...' What does this suggest about the way Jackson was walking?

_____

_____

4. What does the phrase '...he added with a wink' suggest about Tiny's understanding of the situation?

_____

_____

# Tuesday – Percentages as Fractions and Decimals

**1. Match the fractions to the equivalent decimal and percentage.**

A. $\frac{36}{300}$    0.65    42%
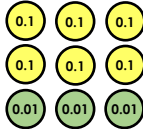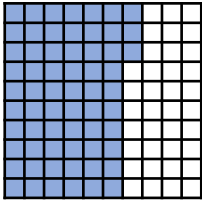
B. $\frac{65}{100}$    0.42    65%

C. $\frac{84}{200}$    0.12    12%

**2. Circle the odd one out.**

63%

$\frac{63}{300}$

0.63

**3. True or false?**

75% is equivalent to 7.5

**4. Complete the boxes with the missing equivalent decimal or percentage.**

A.    $\frac{64}{200}$ = ☐ = 32%

B.    $\frac{24}{100}$ = 0.24 = ☐

C.    $\frac{36}{100}$ = 0.36 = ☐

**5. There are 100 pencils in a box.**

Class 5 takes $\frac{4}{10}$ of the pencils. Class 4 takes 25% of the pencils.

How many does each class have?

How many pencils are left in the box?

What percentage is this?

**6. Convert the fractions and decimals below into percentages.**

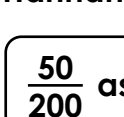0.7    $\frac{72}{100}$    $\frac{148}{200}$    $\frac{75}{300}$    0.75

Write the percentages in descending order.

**7. Hannah and Sean are converting fractions and decimals into percentages.**

0.5 as a percentage is 50%.

**Hannah**

$\frac{50}{200}$ as a percentage is 50%.

**Sean**

Who is correct?
Explain how you know.

# Tuesday – Adding 'de-' 'dis-' and 'mis-'

**1. Match each prefix to a suitable root word to create a new word.**

| de | appoint |
| dis | conduct |
| mis | code |

**2. Circle the word below that means 'force out of position'.**

Carl tried to dislodge the bolt, but it was too tight.

**3. Complete the sentence below using a word from the word bank.**

disagreed     decompose

disapproved     misunderstood

My mum _____ with my opinion on homework.

**4. Create a sentence using only the words below.**

| question | how |
| did | misread |
| the | you |

**5. Add de-, dis- or mis- to each of the root words below to create four new words.**

| own | lead |
| trust | rail |

**6. Use each word below in a sentence. How does the prefix 'mis-' change the meaning of the root word?**

behave

misbehave

Explain your reasoning.

**7. Jerry has used a word with a prefix.**

Jerry

I discounted my pocket money. I have more than I thought.

Explain his error below.

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# Wednesday – Adding – Same Decimal Places

**1. Complete the addition calculations using the digits on the digit cards.**

A.

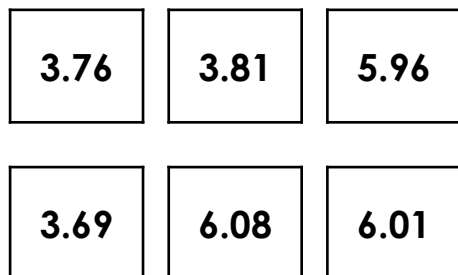$$2 \; . \; 5 \; 9$$
$$+ \; 4 \; . \; 1 \; 9$$
$$6 \; . \; \boxed{\phantom{0}} \; \boxed{\phantom{0}}$$

B.

$$5 \; . \; 3 \; 7$$
$$+ \; 3 \; . \; 5 \; 4$$
$$8 \; . \; \boxed{\phantom{0}} \; \boxed{\phantom{0}}$$

| 1 | 8 | 9 | 7 |
|---|---|---|---|

**2. Use the numbers below to complete the number sentences. You can only use each number once.**

| 3.76 | 3.81 | 5.96 |
|------|------|------|
| 3.69 | 6.08 | 6.01 |

A. $\boxed{\phantom{0}}$ + $\boxed{\phantom{0}}$ = 9.77

B. $\boxed{\phantom{0}}$ + $\boxed{\phantom{0}}$ = 9.77

C. $\boxed{\phantom{0}}$ + $\boxed{\phantom{0}}$ = 9.77

**3. Sir Kevin can carry a total of 8.89kg. Which gems will he be able to take with him?**
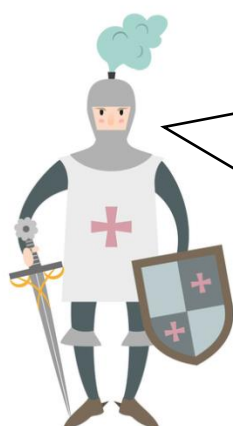
My sword weighs 1.06kg, my shield weighs 2.65kg and my armour weighs 4.11kg.

0.49 kg     0.59 kg     0.58 kg     0.62 kg

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# Wednesday – Adding 're-' and 'over-'

**1. Add either 're-' or 'over-' to the underlined root words to create the word that matches the meanings below.**

to <u>build</u> again _____

to <u>flow</u> out _____

**2. Add 're-' or 'over-' to the root word to correctly complete the sentences below.**

He's feeling stressed because he's _____ worked.

The magician made the rabbit _____ appear.

**3. Tick the word which completes the sentence.**

The man was extremely cross, but he tried not to _____.

overreact ☐

overact ☐

**4. Which sentence has used 're-' or 'over-' correctly?**

Alia recalculated the answer and overdid her homework. ☐

Alia recalculated the answer and redid her homework. ☐

Alia overcalculated the answer and overdid her homework. ☐

**5. Create a sentence using only the words below.**

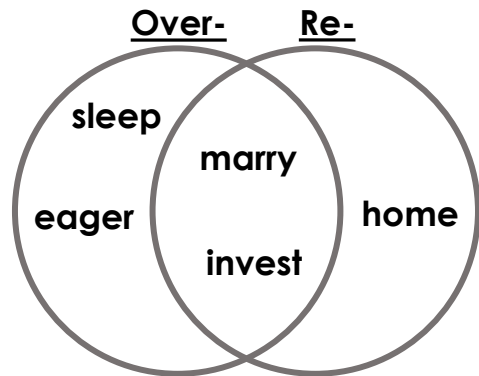| to | managed |
| her | spiders |
| she | fear |
| of | overcome |

**6. Rewrite the sentence below to show that the dog is too excited.**
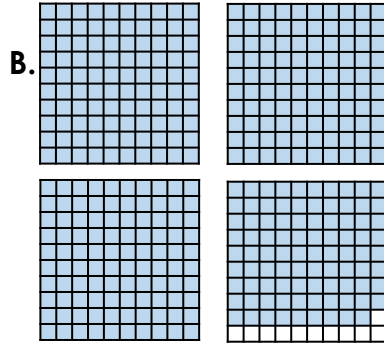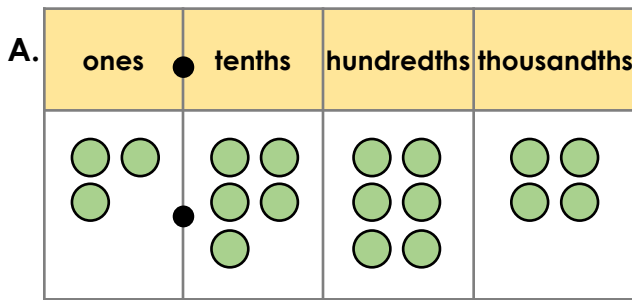
She had to move away from the excited dog.

**7. Marcie has sorted the words below.**

Over-    Re-

sleep
marry
eager    home
invest

Has she sorted them correctly? Explain how you know.

# Thursday – Adding – Different Decimal Places

**1. Match the representation to the correct calculation. Write the letter of the representation in the box provided.**

A.

| ones | tenths | hundredths | thousandths |
|------|--------|------------|-------------|
| ●● | ●● ●● ● | ●● ●● ●● | ●● ●● |

B.

C.

2.466

$1.32 + 2.57 =$ ☐  $1.034 + 2.53 =$ ☐  $1.45 + 1.016 =$ ☐

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**2. Place an 'X' in the boxes to show whether the statements are true or false.**

|  |  | True | False |
|--|--|------|-------|
| **A.** | $5.029 + 0.1 = 5.129$ | ☐ | ☐ |
| **B.** | $2.17 + 0.3 = 2.2$ | ☐ | ☐ |
| **C.** | $4.312 + 1.09 = 5.311$ | ☐ | ☐ |

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**3. Steph and Sean are solving the calculation below.**

$$3.054 + 2.3 =$$

The answer is 5.057.

**Steph**

The answer is 5.354.

**Sean**

Who is correct? Explain how you know.

# Thursday – Adding '-ate', '-ise' and '-ify'

**1. Match the suffixes to the correct root words.**

sympathy     ate

fortune     ise

pure     ify

**2. Add the correct suffix to the underlined word in the sentence below.**

> She spent time trying to <u>beauty</u> her hair before the party.

**3. James adds the suffix '-ate' to the word below. Shade the word class that it belongs to now.**

formula

verb     adjective     noun

**4. Complete the table by adding the suffixes shown below. Put a line through any words which are incorrect.**

| Root word | +-ise | +-ify | +-ate |
|-----------|-------|-------|-------|
|           |       | simplify |    |
| improve   |       |       |       |
| energy    |       |       |       |

**5. Jessie has added the suffix below to each of the words in the word bank.**

-ify

glory    energy    agony

captive   electric   improve

Circle the words which work.
Write the correct suffixes onto the other words.

**6. Yasmin is thinking about the suffix '-ise'. She looks at the three words below.**

Yasmin

> The word 'active' is the odd one out.

memory    immune    active

Do you agree? Explain your answer.

# Additional Resources – Guided Reading
# Circulatory System

**Read the text on the next page and answer the questions.**

1. **What is the job of the pulmonary circuit?**

2. **Find and copy the word from the text that is similar in meaning to 'carries'.**

3. **Find and copy two adjectives that the writer used to describe the walls of the arteries.**

4. **Why do veins have thinner walls than arteries?**

5. **Give three features of a non-fiction text that the author has used.**

6. **What percentage of the blood is plasma?**

7. **Give the two important jobs of the white blood cells.**

8. **Give the name of the section which tells you about blood clotting.**

# Additional Resources – Guided Reading
# Circulatory System

## The Circulatory System

The circulatory system is a group of organs which transports blood and nutrients around the body. It consists of two circuits: the pulmonary circuit and the systemic circuit. The pulmonary circuit carries blood to the lungs to get oxygen and then back to the heart. The systemic circuit then carries the blood around the body to deliver the oxygen and return deoxygenated blood back to the heart.

## The Heart
The heart is the organ responsible for pumping blood around the body. It is about the size of a clenched fist and is made up of four chambers. The human heart beats on average, sixty to ninety times per minute. Blood enters the right atrium of the heart and is emptied into the right ventricle. The right ventricle then pumps the blood to the lungs to collect oxygen and then travels to the left atrium. Next it is pushed into the left ventricle where it is pumped to the rest of the body via the aorta.

A diagram of the human heart

Right atrium

Right ventricle

Left atrium

Left ventricle
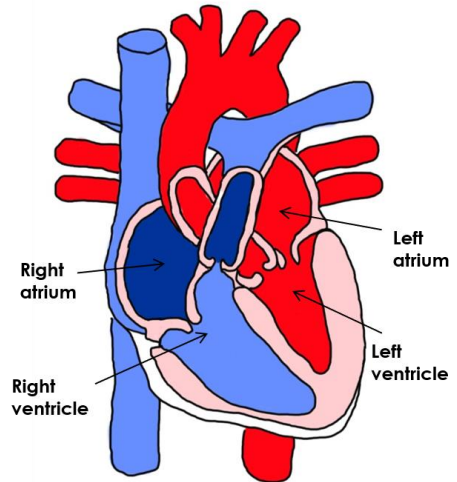
## Blood Vessels

### Arteries
Arteries are the blood vessels which carry oxygenated blood away from the heart. They have thick, muscular walls as they have to withstand high pressure.

### Veins
Veins are the blood vessels which transport deoxygenated blood back to the heart. Veins have thinner walls as the blood travelling back to the heart is under low pressure. There are also valves in veins to prevent the blood from flowing backwards.

### Capillaries
Capillaries are very small blood vessels which are only one cell thick. They are found in muscles and the lungs. They are responsible for delivering oxygen and nutrients to cells around the body therefore they need to be thin to allow these to pass through easily.

# Additional Resources – Guided Reading
# Circulatory System

## Blood

Blood is the red coloured liquid that is pumped around the body. The average human adult has around five litres of blood in their body. Blood is made up of four different components which each perform a different function in the body.

**A diagram of the components of blood**

Plasma

Platelet

White blood cell
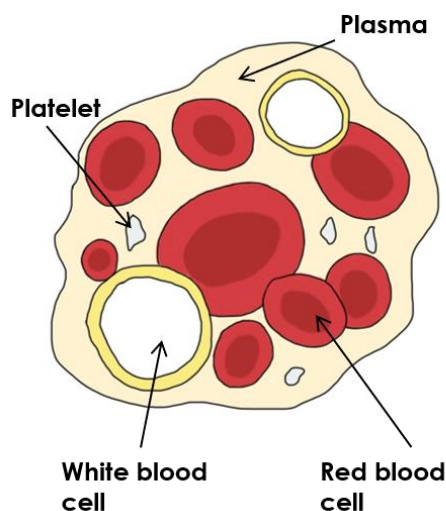
Red blood cell

## *Plasma*

Plasma is the fluid part of blood. It makes up about 55% of the total blood volume. It is mostly made up of water as well as lots of other substances such as hormones, proteins and salts.

## *Red Blood Cells*

Red blood cells carry the oxygen around the body. They contain a protein called haemoglobin which carries the oxygen. It is the interaction between the haemoglobin and oxygen that gives blood its bright red colour. Red blood cells are made in the bone marrow and usually last for around 120 days. Arteries have bright red blood in them because there's lots of oxygen present, whereas the blood in the veins is deoxygenated so it appears dark red (or blue when covered by skin).

## *White Blood Cells*

White blood cells play a big part in the body's immune system and help to fight off infection. They protect the body from germs, such as bacteria and viruses. Pus (the yellowish fluid often found at the site of an infection) is a collection of dead white blood cells.

## *Platelets*

The purpose of the platelets is to help wounds heal. They clump together to form blood clots (known as a scab) which prevents further bleeding.