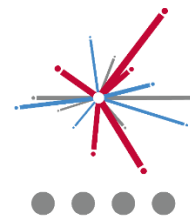


# Ark Pioneer learning at home

## Core Curriculum

### Maths – Week 14



#### Work to be completed

- Percentage of an Amount
- Percentage Increase
- Percentage Decrease
- Problems involving percentages
- Numeracy Ninjas

#### Resources / links to help with work:

All resources/website links are integrated into the first page of each topic.

#### How will this work be checked?

After each homework you will be given 'red pen work' to carry out corrections on the learning that you are doing at home. Please make sure this work is done and that you correct all work in your exercise book.

#### How much time should I be studying and what happens if I don't finish all my work?

For core curriculum subjects you are expected to do 30min each day as a minimum. Those subjects are English language, English literature, Maths, Science, History and Geography. These subjects all have a weekly quiz and will be checked in on by your form teacher when they call each week.

All other subjects are 'Extended Curriculum' and they should be done after you have finished the Core Curriculum tasks for the day. You should plan to do work in different subjects each day. We recommend that pupils do one hour per week in each of the 'extended curriculum' subjects.

We recognise that it is not possible for all pupils to complete all work given the exceptional circumstance. Please speak with your form tutor about the work if it is becoming unmanageable.



*Aim high*



*Have integrity*



*Be kind*



*Model determination*

## Percentage of an Amount

- Click on the following link to find today's homework.  
<https://classroom.thenational.academy/lessons/percentage-of-an-amount>
- Click on **start lesson**.
- Complete the **introductory Quiz**.
- Click on **Next Activity**.
- Click on the **play button** to start the video.
- There will be times when you must:
  - Pause the video
  - Complete the question on your own to get the answer
  - Press play again to view the working out and answer.
- Take notes where required in your exercise books.
- Once you have finished the video, click on **Next Activity**.
- Complete the **worksheet** as best as possible in your exercise books.
- **Red pen** your work and correct any mistakes.
- Click on **Next Activity**.
- Complete the **Exit Quiz**.

## Percentage Increase

- Click on the following link to find today's homework.

<https://classroom.thenational.academy/lessons/percentage-increase-cc80c1>

- Click on **start lesson**.
- Complete the **introductory Quiz**.
- Click on **Next Activity**.
- Click on the **play button** to start the video.
- There will be times when you must:
  - Pause the video
  - Complete the question on your own to get the answer
  - Press play again to view the working out and answer.
- Take notes where required in your exercise books.
- Once you have finished the video, click on **Next Activity**.
- Complete the **worksheet** as best as possible in your exercise books.
- **Red pen** your work and correct any mistakes.
- Click on **Next Activity**.
- Complete the **Exit Quiz**.

## Percentage Decrease

- Click on the following link to find today's homework.  
<https://classroom.thenational.academy/lessons/percentage-decrease-42b8e1>
- Click on **start lesson**.
- Complete the **introductory Quiz**.
- Click on **Next Activity**.
- Click on the **play button** to start the video.
- There will be times when you must:
  - Pause the video
  - Complete the question on your own to get the answer
  - Press play again to view the working out and answer.
- Take notes where required in your exercise books.
- Once you have finished the video, click on **Next Activity**.
- Complete the **worksheet** as best as possible in your exercise books.
- **Red pen** your work and correct any mistakes.
- Click on **Next Activity**.
- Complete the **Exit Quiz**.

## Problems involving Percentages

- Click on the following link to find today's homework.

<https://classroom.thenational.academy/lessons/problems-involving-percentages>

- Click on **start lesson**.
- Complete the **introductory Quiz**.
- Click on **Next Activity**.
- Click on the **play button** to start the video.
- There will be times when you must:
  - Pause the video
  - Complete the question on your own to get the answer
  - Press play again to view the working out and answer.
- Take notes where required in your exercise books.
- Once you have finished the video, click on **Next Activity**.
- Complete the **worksheet** as best as possible in your exercise books.
- **Red pen** your work and correct any mistakes.
- Click on **Next Activity**.
- Complete the **Exit Quiz**.

# Numeracy Ninja challenge



## Instructions

- Complete the 30 questions below. You have **20 minutes maximum**.
- Time yourself. See how long it takes you to complete all of the questions.
- You can use a calculator at the end to check your answers.
- Record your score and time taken to complete all 30 questions below.

**MENTAL STRATEGIES -**  
do these in your head

Q	Question	Answer
1	$4 + 1$	
2	$66 + \square = 100$	
3	What is half of 6?	
4	$122 - 10$	
5	$56 + \square = 90$	
6	$56 = 26 + \square$	
7	$199 - 194$	
8	$10 \times 5 = 50$ , so $50 \div 10 = \square$	
9	Write 2:15 pm in 24 hour clock format	
10	From 15:09, how many minutes until 15:30?	
<b>Total out of 10</b>		

**TIMESTABLES -**  
do these in your head

Q	Question	Answer
1	$9 \times 5 = \square$	
2	$60 \div 6 = \square$	
3	$2 \times \square = 16$	
4	$10 \div \square = 1$	
5	$9 \times 10 = \square$	
6	$12 \div 2 = \square$	
7	$\square \times 5 = 20$	
8	$\square \div 4 = 6$	
9	$8 \times 3 = \square$	
10	$18 \div 6 = \square$	
<b>Total out of 10</b>		

**KEY SKILLS -** you may use written calculations  
for these questions

Q	Question	Answer
1	List all the factors of 2	
2	What is $\frac{1}{2}$ of 8?	
3	$65 \times 38$	
4	$11661 - 7509$	
5	$8.2 \times 3.5$	
6	173.2% as a decimal number	
7	$13 + 4.5$	
8	$40 \div (-10)$	
9	If $a = 4$ $b = 5$ and $c = 7$ , what is the value of $3b - 2a$ ?	
10	$7 - (-5)$	
<b>Total out of 10</b>		

Score:	/	30
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Time taken:	:	
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