

GRAYS TUITION CENTRE – Online Tutoring

WEEK: 10

Week Beginning: (22/02/2021)

Subject: MATHS

Year: 5

Lesson Objective:

- Continue to develop understanding on time-based questions
- Be able to effectively use a timeline to work out difference between two phases
- Understand how to work out angles on a clock

Class Worksheets

- Time-based worksheets (See below)

Homework

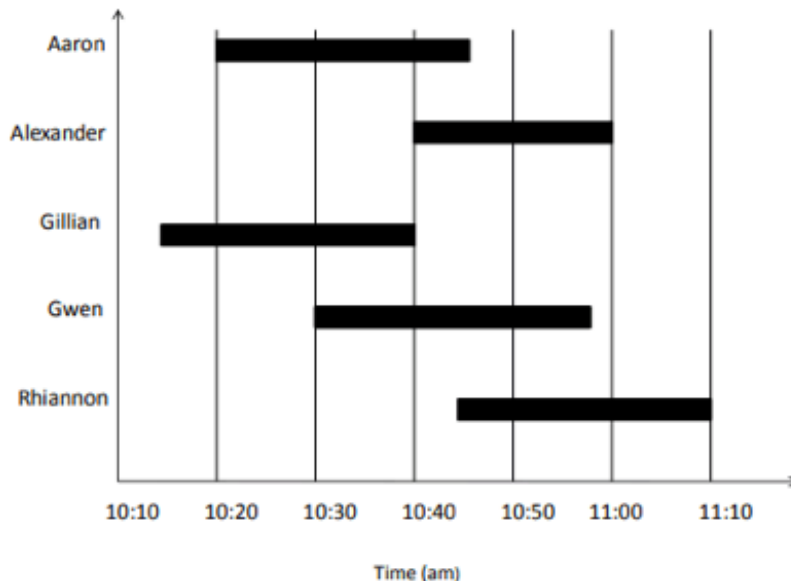
- Mental maths – Year 6 level questions

Additional Notes

- All lesson worksheets and **homework for next week (due Week 11)** worksheets can be found below
- Week 9 homework will be marked in lesson hence make sure it is fully complete

Please print 2 a page or open this document during the lesson to save paper!

18. This chart shows the times when 5 children were visiting Chester Zoo one afternoon.



(a) Who arrives the **earliest** out of the 5 children?

Answer.....

(b) Who spent the **shortest time** at the zoo?

Answer.....

15. At a busy railway station trains leave from platform 5 every 6 minutes and from platform 8 every 10 minutes. Trains leave from both platforms at 15:57. When do trains next leave both platforms at the same time?

14. For Ben's birthday he goes to the cinema. Tickets cost £3.85 for children and £5.50 for adults.
In his party there are 4 children and 2 adults.

(a) How much do the tickets cost?

Answer: _____

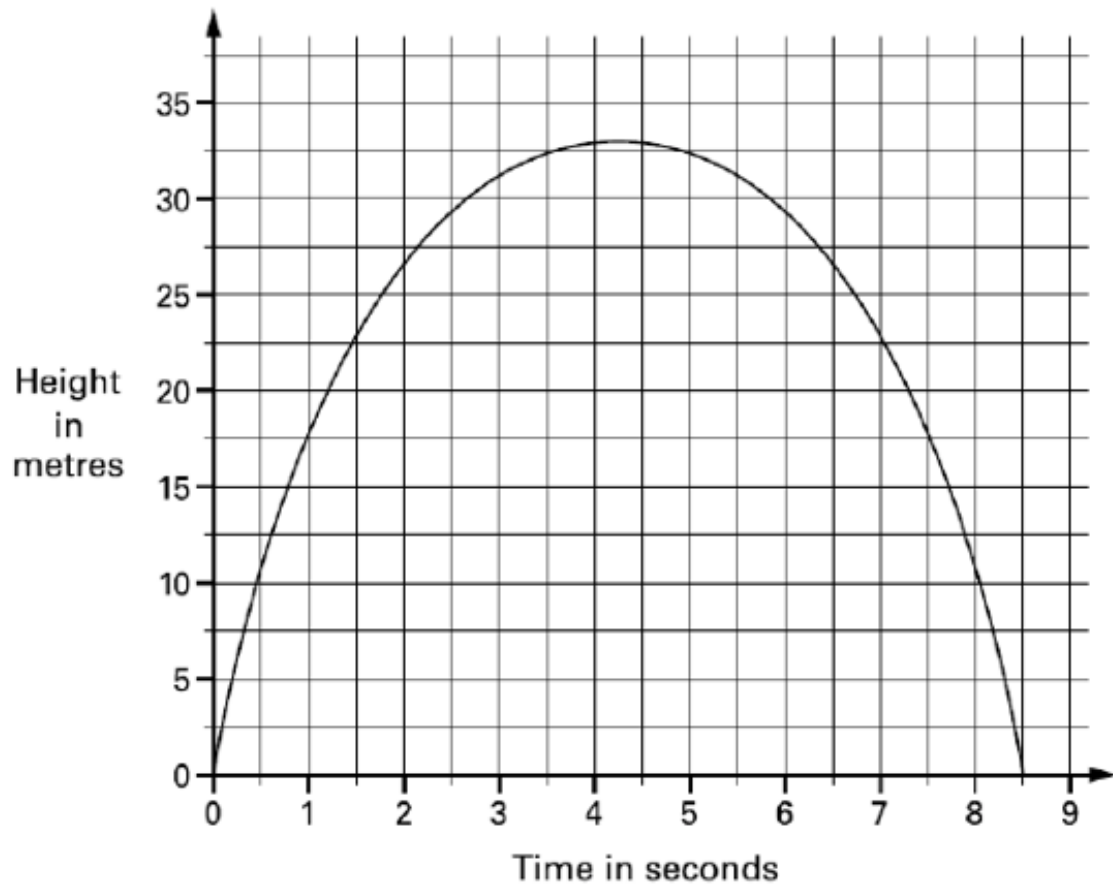
(b) Ben's Mum hands the cashier two £20 notes for the tickets. How much change does she receive?

Answer: _____

(c) The film starts at 15:55 and finishes at 5.35pm. How long does it last?

Answer: _____

32. This is the graph of a firework rocket showing its height at different times.



(a) Estimate from the graph how many seconds the rocket is more than 25m above the ground.

Answer.....s (1 mark)

(b) Estimate from the graph how far the rocket climbs between the times of 1s and 2s.

.....m (2 marks)

19. The instructions below are used to work out the cooking time for a turkey.

50 minutes per kilogram plus 20 minutes

Claire wants to cook a turkey with a mass of 2.5 kilograms.

For how long should Claire cook the turkey?

Give your answer in hours and minutes.

9. Express 42 minutes as a fraction of one hour, giving your answer in its simplest form

9

11. To cook a joint of beef, you leave it in the oven for 30 minutes for every kilogram it weighs plus 20 minutes extra. Find how long you should cook a joint weighing:
(a) 2kg (b) 3.5kg

6. Calculate how many seconds there are in $15\frac{1}{2}$ hours.

Answer: _____

9. Femi takes 2 hours and 53 minutes to cycle from London to Reading. If he arrived at 3:21pm, at what time must he have set off?

A: 12:24pm B: 1:24pm C: 12:28pm D: 12:18pm E: 1:28pm

20. Jamie left school at 3:55pm and arrived home 55 minutes later.

At what time did Jamie get home?

Answer:pm (1 mark)

9. Melanie's father took 1 hr 25 mins to drive from Peterborough to Oxford. He left Peterborough at 11.45 am. At what time did he arrive in Oxford?

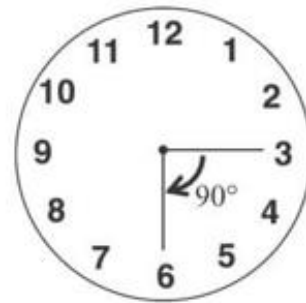
18. The students on the Aldenham Geography trip to Iceland arrive at Heathrow Airport at 10:45. Their flight leaves at 13:05.

How many minutes do they have to wait at the airport before their flight leaves?

15. At a busy railway station trains leave from platform 5 every 6 minutes and from platform 8 every 10 minutes. Trains leave from both platforms at 15:57. When do trains next leave both platforms at the same time?
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16. Katy is going to the cinema to see a film that starts at 3.25 pm and lasts 108 minutes. At what time will the film end?
Write your answer using the 24-hour clock.

32. Between 3 a.m. and 6 a.m. the hour hand on a clock moves through an angle of 90° .



Work out the angle which the hour hand on a clock moves through between

- (a) 9 a.m. and 10 a.m.

Answer: $^\circ$

- (b) 12:45 and 13:15

Answer: $^\circ$

- (c) 6.30 p.m. and 8.50 p.m.

Answer: $^\circ$

10. What time is **1** hour and **37** minutes later than **14 : 48**?

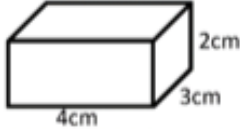
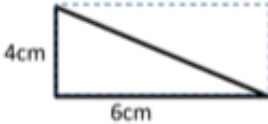
11. I arrived at the station at 7.47 a.m. My train was due at five past eight but was 13 minutes late.

How long did I have to wait for my train?

Homework Questions:



MENTAL MATHS QUIZ 6:6



1)	$3\frac{2}{5} + 5\frac{1}{5}$	
2)	What is 50% of £48?	
3)	Write down all the factors of 45. _ _ _ _ _	
4)	What is the volume of this cuboid? 	
5)	Convert 37% into a fraction.	
6)	Write $3\frac{2}{5}$ as an improper fraction.	
7)	What is the area of this triangle? 	
8)	Round 6257.5 to the nearest 10	
9)	Find the value of x if $3x + 1 = 16$.	
10)	The flight time from Boston to London is 6 hours 20 minutes. I arrive in London at 4:05pm. What time did I set off from Boston?	
11)	Find the mode of 4, 6, 2, 5, 3, 4, 2, 6, 1, 7, 4, 3, and 8.	
12)	A bag contains 5 blue beads and 3 yellow beads. I pull a bead at random out from the bag. What is the probability it is yellow?	
13)	Write $\frac{12}{36}$ in its simplest form.	
14)	Quadra gets £120 for her birthday. She spends $\frac{1}{3}$ and saves the rest. How much does she save?	
15)	If $x = 7$, work out the value of $x^2 - 5$.	
16)	If 1kg of rice costs £1.20, how much does 500g cost?	
17)	How many vertices does a hexagonal pyramid have?	
18)	Convert 0.7 into a percentage.	



MENTAL MATHS QUIZ 6:5

1)	$0.35 + 0.6 + \underline{\hspace{1cm}} = 1$	
2)	$\frac{1}{4}$ of 24	
3)	Which of these numbers is not a multiple of 4? 36 62 28 52 72 88	
4)	If $x = 5$, what is the value of $(2x + 8)/3$	
5)	Add up all the odd numbers between 20 and 26.	
6)	Solve $2x = 12$	
7)	The perimeter of a rectangle is 12cm. The area is 5cm^2 . What is the length of the sides?	
8)	Write down all the prime numbers between 30 and 40.	
9)	What is the missing angle? 	
10)	A scale model of a motorbike is made with a ratio of 1:40. The length on the scale model is 6cm. How long is the actual motorbike?	<u> </u> m <u> </u> cm
11)	$1625 \div 100$	
12)	Sally sells 30 raffle tickets and makes £18. How much did she sell each ticket for?	
13)	$52.76 = 52 + 0.7 + \underline{\hspace{1cm}}$	
14)	Convert $1\frac{7}{6}$ to a mixed number.	
15)	Write 'a' on each acute angle. How many are there? 	
16)	The time is 7:25pm. What is the 24-hour clock time?	
17)	$\frac{1}{5} + \frac{1}{4}$	
18)	A husky runs at 28 miles per hour for 30 minutes. How far has it run?	

