

Year 6 Word Problems

Q1. A box holds 40 packets of envelopes.

Each packet holds 25 envelopes.

How many envelopes does the box hold?

Q2. Ahmed says,

“To simplify a fraction, you just halve the numerator and halve the denominator.”

Is Ahmed’s statement always true, sometimes true or never true?

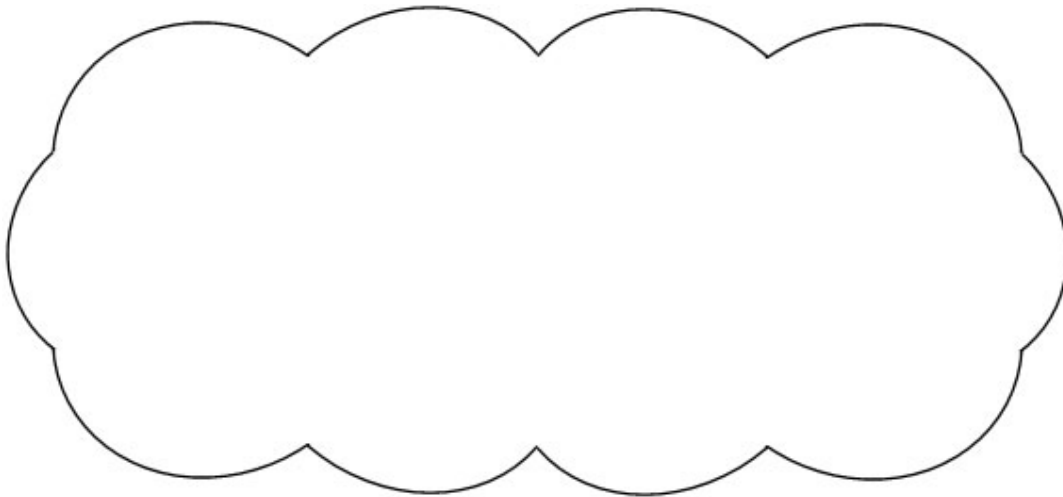
Circle your answer.

always

sometimes

never

Explain your answer.



Q3. Each day, a school has

- break from 10:15 am to 10:30 am
- lunchtime from 12:40 pm to 1:30 pm.

What is the total time the school has for breaks and lunchtime in a 5-day week?

Q4. Write the missing numbers in the table.

Number of weeks	Number of days
1	7
2	14
4	28
6	
10	
	105

Q5. One day last year, the rate of rainfall from 6:30 am until 9:00 am was 2 millimetres per hour.
What was the total rainfall from 6:30 am until 9:00 am?

mm

Q6. Amina went to a concert one evening.



It took her an hour and twenty minutes to get there from home.
She arrived at ten past seven.
At what time did she leave home?

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The concert started at 7:20 pm.
It finished at 9:05 pm.
How long did the concert last?

hours	minutes
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Q7. The length of a day on Earth is 24 hours.

The length of a day on Mercury is $58\frac{2}{3}$ times the length of a day on Earth.
What is the length of a day on Mercury, in hours?

Q8. This table shows the areas of the United Kingdom and Jamaica.

Country	Area (square kilometres)
United Kingdom	240,000
Jamaica	10,000

The area of the United Kingdom is larger than the area of Jamaica.
How many times larger is the United Kingdom?

Q9. In March, Ken collects 2, 3 or 4 eggs each day from his hens.

In the first 20 days, Ken collects 57 eggs altogether.

There are 31 days in March.

What is the greatest number of eggs Ken can collect in March?

Q10. Jack finished a sponsored run in 53 minutes 25 seconds.

Ally finished 3 minutes 50 seconds after Jack.

How long did Ally take?

min	sec
-----	-----

Layla finished the run 8 minutes 45 seconds before Jack.

How long did Layla take?

min	sec
-----	-----

Q11. Write the missing numbers.

60 months = years

72 hours = days

84 days = weeks

Q12. Here is a rule for the time it takes to cook a chicken.

Cooking time = 20 minutes plus an extra 40 minutes for each kilogram

How many minutes will it take to cook a 3 kg chicken?

minutes

What is the mass of a chicken that takes 100 minutes to cook?

kg

Q13. William wants to travel to Paris by train.

He needs to arrive in Paris by 5:30 pm.

Circle the latest time that William can leave London.

Leaves London	Arrives Paris
12:01	15:22
12:25	15:56
13:31	16:53
14:01	17:26
14:31	17:53
15:31	18:53
16:01	19:20

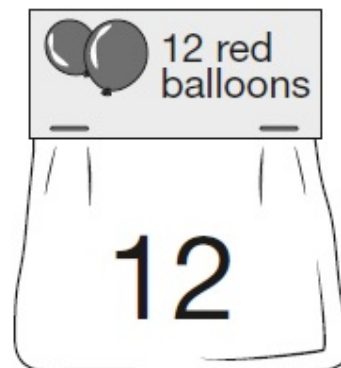
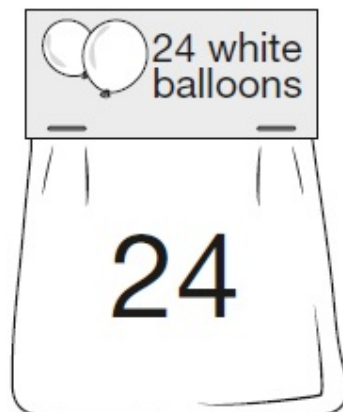
Q14. Here is the morning timetable for Chen's class this week.

Time	Mon	Tue	Wed	Thu	Fri
9:00 am - 10:30 am	Maths	English	Maths	English	Maths
10:30 am - 11:00 am	Break	Break	Break	Break	Break
11:00 am - 12:00 pm	English	Maths	Science	Maths	English

What is the total number of hours for English on this timetable?

hours

Q15.



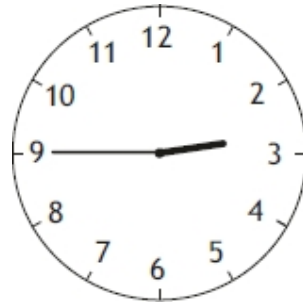
Adam buys 6 bags of white balloons.

Chen buys 3 bags of red balloons.

Adam says, 'I have four times as many balloons as Chen.'

Explain why Adam is correct.

Q16. A clock shows this time twice a day.



Tick the two digital clocks that show this time.

03:45

02:45

09:45

21:45

14:45

Q17. Here is part of the bus timetable from Riverdale to Mott Haven.

Riverdale	10:02	10:12	10:31	10:48
Kingsbridge	10:11	10:21	10:38	10:55
Fordham	10:28	10:38	10:54	11:11
Tremont	10:36	10:44	11:00	11:17
Mott Haven	10:53	11:01	11:17	11:34

How many minutes does it take the 10:31 bus from Riverdale to reach Mott Haven?

minutes

Mr Evans is at Fordham at 10:30

What is the earliest time he can reach Tremont on the bus?

Q18. What is 444 minutes in hours and minutes?

hours

minutes

Q19. Stefan's watch shows five minutes past nine.

The watch is twelve minutes fast

What is the correct time?



Q20. Liam hires a bike.
He has to return it by 3 pm.
The time is 2:25 pm.
How many minutes has he got left?



minutes

Amy hires a bike for 45 minutes.
She takes the bike out at 3:30 pm.
At what time must she return the bike?

pm

Q21. Here is part of the morning bus timetable from Winton to Yansley.

Winton	9:35	9:55	10:15	10:35
Ingham	9:45	10:05	10:25	10:45
Carston	10:01	10:21	10:41	11:01
Dubley	10:23	10:43	11:03	11:23
Yansley	10:55	11:15	11:35	11:55

How many minutes does the bus take to get from Ingham to Dubley?

minutes

Megan is in Carston.
She wants to be in Yansley before 11:30
What is the time of the latest bus she can take from Carston?

One morning, the 10:35 bus from Winton gets to Carston 3 minutes early.
What time does it get to Carston?

Q22. Seb has to see the doctor at 10:05 am.
He gets to the doctor's surgery at 9:52 am.
How many minutes early is he?
He leaves the doctor's surgery at 10:25 am.
He gets to school 45 minutes later.
What time does he arrive at school?

Q23. Amy did a survey of what time people get up on a Sunday morning. This table shows her results for 150 people.

Time	number of people
before 7 am	13
7:00 am to 7:59 am	28
8:00 am to 8:59 am	59
9:00 am to 9:59 am	36
10 am and after	14

Look at the table.

How many people get up at 8 am or later?

Amy says, 'Two-thirds of the 150 people in the survey get up before 9 am.'

Amy is correct.

Explain how you know.

Q24.



How many days old will the baby be when she has lived for one million seconds?

Q25. These are the opening times at Black Tower Castle.

Monday	Closed
Tuesday to Friday	11am to 6:30pm
Saturday	10am to 6pm
Sunday	10:30am to 4:30pm

How many hours is the castle open on Saturdays?

Alfie arrived at the castle at 5pm on a Thursday.

How long could he stay before closing time?

Q26. These are all times on the same morning.

- a) 7:56 am
- b) quarter to eight
- c) six minutes to eight
- d) half past seven

Write the times in order, starting with the earliest.

Q27. Complete the table.

Time in words	Digital time using 24 hour clock
quarter past 7 in the evening	19:15
ten past 11 at night	
	06:50

Q28. Tick the months that have 31 days.

January	<input type="checkbox"/>	July	<input type="checkbox"/>
February	<input type="checkbox"/>	August	<input type="checkbox"/>
March	<input type="checkbox"/>	September	<input type="checkbox"/>
April	<input type="checkbox"/>	October	<input type="checkbox"/>
May	<input type="checkbox"/>	November	<input type="checkbox"/>
June	<input type="checkbox"/>	December	<input type="checkbox"/>

Q29. The table shows the time taken for school teams to complete the relay race.

Team	Time taken
Red	203 seconds
Blue	2 minutes 5 seconds
Yellow	1 minute 50 seconds
Green	130 seconds

Which team finished first?

Which team finished last?

Q30. Write the missing numbers.

There are _____ days in a year and _____ days in a leap year.

Q31. Dan and Ben ran in a race.

Dan took 25 seconds.

Ben was 3 seconds faster.

How many seconds did Ben take?

Q32. Annie finishes school at ten past 3 in the afternoon.

Circle the 24 hour clock that shows ten past 3 in the afternoon.

03:10

10:03

13:10

15:10

10:15

Q33. Children run a 100 metres race on Sports Day.



Here are their times.

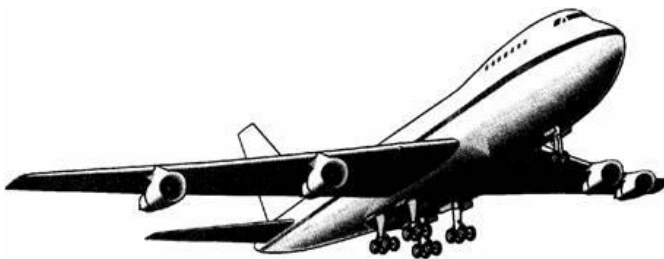
Name	Time taken
Sue	15.97 secs
Jan	16.39 secs
Sam	14.83 secs
Tom	17.00 secs
Raj	15.89 secs

What is the winner's time?

Who has the time nearest to 16 seconds?

Q34. An aeroplane takes off on Tuesday at 22:47.

It lands on Wednesday at 07:05.



How long in hours and minutes is the flight?