

Year 6 Class 17 questions

Q1

Ann is 4 years older than Toby. Bill is twice Toby's age. If the sum of their ages is 28, how old is Ann?

10

Q2

Find two numbers that have a sum of 22 and a product of 112.

and 8 and 14

Q3

Find the sum of the counting numbers from 1 to 20.

210

Q4

Find the sum of the counting numbers from 1 to 60.

1830

Q5

Will, Eli, Tony and Jim are friends. Will is taller than Tony. Eli is shorter than Tony. Jim is the shortest of the four. Place the names in order from tallest to shortest.

Will Eli Tony Jim Will Jim

Q6

Find an odd number between 20 and 50 which is divisible by 3 and when divided by 5 has a remainder of 4.

39

Q7

Find two numbers that multiply to give 120 and have a difference of 2.

and 10 and 12

Q8

Find two numbers that multiply to give 100 and have a difference of 21.

and 4 and 25

Q9

Find two numbers that multiply to give 200 and have a difference of 35.

and 5 and 40

Q10

This pattern of shapes keeps on repeating.



The 12th shape in the pattern would be



The 19th shape in the pattern would be



Q11

This pattern of shapes keeps on repeating.



The 27th shape in the pattern would be



The 32nd shape in the pattern would be



Q12

Find the sum of the **even** numbers from 1 to 40.

$$2 + 4 + 6 + 8 + \dots + 34 + 36 + 38 + 40$$

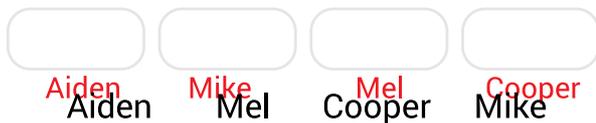
Each pair adds to
42

There are pairs.

The sum is
420

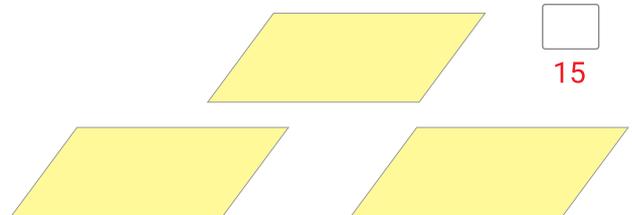
Q13

Cooper, Mike, Mel and Aiden are friends. Cooper is the tallest. Mike is between Mel and Aiden in height. Aiden is shorter than Mel. Place the names in order from shortest to tallest.



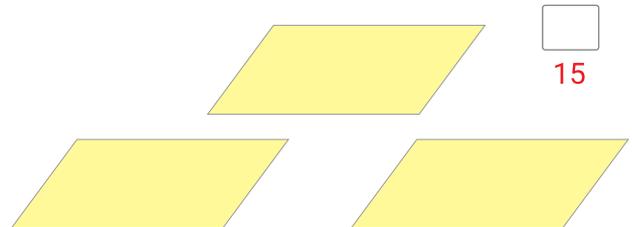
Q14

Four discs are to be moved from the left mat to the right mat. They can be moved to any mat *one at a time*. No disc can be placed on top of a smaller one and no disc can be moved from underneath another disc. Find the least number of moves required to move the discs from the left to the right.



Q15

Four discs are to be moved from the right mat to the left mat. They can be moved to any mat *one at a time*. No disc can be placed on top of a smaller one and no disc can be moved from underneath another disc. Find the least number of moves required to move the discs from the right to the left.



Q16

John, Peter and Sam were asked to name their favourite activity. They chose football, chess and cricket. Sam likes football the best and John's favourite activity does not involve a ball.

Who chose which activity?



Q17

Maxi, Arthur and Jack were asked their favourite Maths topic and chose algebra, geometry and probability. Jack does not like algebra and Maxi's favourite topic involves rolling dice.

Who chose which topic?

Maxi	Arthur	Jack
<input type="text"/>	<input type="text"/>	<input type="text"/>
probability algebra	algebra probability	geometry geometry

Q18

Ben, Mark and Peter are three friends with surnames Edwards, Chapman and White. Mr Chapman and Mr White live in Darwin and Mark lives in Perth. Ben and Mark drive black cars while Mr White drives a red car.

Match the correct names.

Ben	<input type="text"/>	Peter	<input type="text"/>
	Chapman		White
Mark	<input type="text"/>		
	Edwards		
White	Edwards	Chapman	

Q19

Find two numbers that have a product of 483 and have a difference of 2.

and 21 and 23

Q20

Find two numbers that have a product of 504 and have a difference of 10.

and 18 and 28

Q21

On Jo's farm there are a total of 10 pigs and ducks. She counted the number of legs they had altogether and got 26. How many pigs are there?

3

Q22

Find the sum of the **even** numbers from 1 to 80.

$$2 + 4 + 6 + 8 + \dots + 74 + 76 + 78 + 80$$

1640

Q23

Find the sum of the **odd** numbers from 1 to 60.

$$1 + 3 + 5 + 7 + \dots + 53 + 55 + 57 + 59$$

900

Q24

Find the sum of the **odd** numbers from 1 to 80.

$$1 + 3 + 5 + 7 + \dots + 73 + 75 + 77 + 79$$

1600

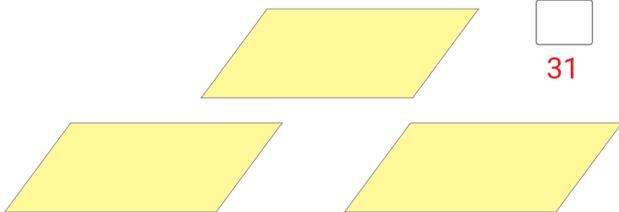
Q25

Hayley, Rita, Elisha and Carol are friends. Hayley is shorter than Elisha and taller than Carol. Rita is shorter than Carol. Arrange the names in order from tallest to shortest.

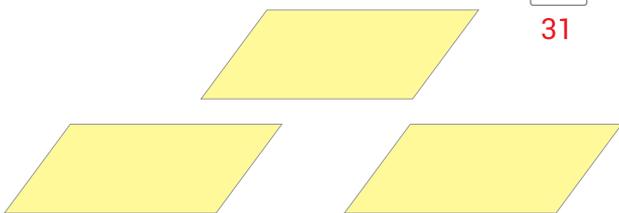
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Elisha	Hayley	Carol	Rita

Q26

Five discs are to be moved from the left mat to the right mat. They can be moved to any mat *one at a time*. No disc can be placed on top of a smaller one and no disc can be moved from underneath another disc. Find the least number of moves required to move the discs from the left to the right.

**Q27**

Five discs are to be moved from the right mat to the left mat. They can be moved to any mat *one at a time*. No disc can be placed on top of a smaller one. Find the least number of moves required to move the discs from the right to the left.

**Q28**

Which numbers between 10 and 99 have digits which differ by 2 and add to 8?

and 35 and 53

Q29

Which numbers between 10 and 99 have digits which differ by 3 and add to 9?

and 36 and 63

Q30

Lydia, Emily and Kayla are cousins whose ages are 8, 10 and 15. Gibson, Harvey and Freeman are their surnames. Miss Harvey is 7 years older than Emily. Miss Gibson is the youngest cousin and Lydia's age is 10.

Which statement is correct?

- Emily Freeman is 8 years old
- Emily Harvey is 15 years old
- Lydia Gibson is 10 years old
- Kayla Harvey is 15 years old