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**FACE**

**TCS Ninja - Quantitative Aptitude\_2**

a.\$27 b.\$18 c.\$45 d.\$486

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**TEST CODE : TCS Ninja - Quantitative Aptitude\_2**

Total number of question : 20

Test duration (min) : 40 min

Correct attempt (mark) : 1 Wrong attempt (mark) : -0.33

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#### **QUANTITATIVE APTITUDE**

1. Consider two tumblers, the first containing one litre of water. Suppose you take one spoon of water out of the first tumbler and pour it into the second tumbler and after which you take one

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spoon of the mixture from the second tumbler and pour it back into the first tumbler. Which one of the following statements holds true?

- a. There is less coffee in the first tumbler than water in the second tumbler.
- b. There is more coffee in the first tumbler than water in the second tumbler
- c. There is as much coffee in the first tumbler as there is water in the second tumbler
- d. None of the statements holds true.

**Answer:** C

**Explanation:**

Suppose spoon can contain 5 drops. Tumbler can contain 100 drops.

1 --> 2 (spoon contains 5w drops) tumb 1: 95w

tumb 2: 100c + 5w

2 --> 1 (spoon contains 4c+1w drops)

tumb1:96w

tumb2:96c.

There is as much coffee in the first tumbler as there is water in the second tumbler.

**2.** A lady has fine gloves and hats of different colours in her closet 18 blue, 32 red and 25 yellow. The lights are out and it is totally dark. In spite of the darkness, she can make out the difference between a hat and a glove. She takes an item out of the closet only if she is sure that it is a glove. How many gloves must she take out to make sure she has a pair of each colour? a.6 b.8 c.60 d.59

**Answer:** D

**Explanation:**

It is not given that how many of these items are gloves and how many are hats, if we consider that all the items are gloves then according to my opinion  $32+25+2 = 59$  gloves, she must take out to make sure she has a pair of each colour.

**3.** It was the semester exam day, Vidhya caught the college bus. She enjoyed travelling by bus. Moving at 6 mph, the bus took Vidhya to college at the right time. She finished her exam and had a chit chat with her friends and suddenly she realized that it was 6 pm and she had missed the college bus. She decided to walk back home at 4 mph. What is her average speed for the day?

a.4mph b.5mph c.2.4mph d.4.8mph

**Answer:** D

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**Explanation:**

Since distance is constant, to calculate the average speed  $= \frac{2xy}{x+y}$ , where x and y are speed given.

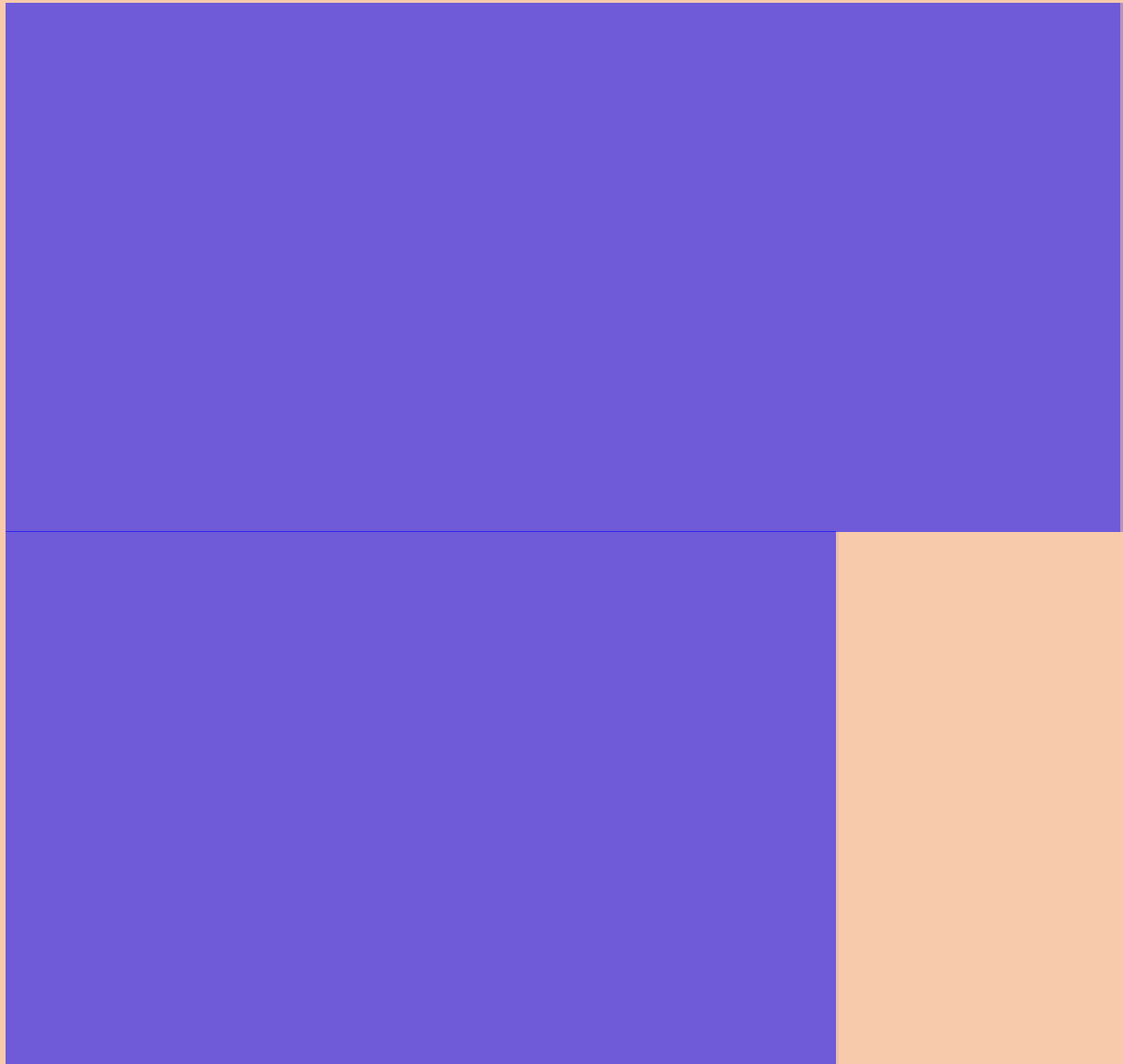
So  $\frac{2 \times 6 \times 4}{6+4} = \frac{48}{10} = 4.8 \text{ mph}$ .

4. Spores of a fungus, called late blight, grow and spread infection rapidly. These pathogens were responsible for the Irish potato famine of the mid-19th century. These seem to have attacked the tomato crops in England this year. The tomato crops have reduced and the price of the crop has risen up. The price has already gone up to \$45 a box from \$27 a box a month ago. How much more would a vegetable vendor need to pay to buy 27 boxes this month over what he would have paid last month?

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**FACE Answer:** D

**Explanation:**

Since the price of a box increased from \$27 to \$45, there will be a loss of 18 for one box. So for 27 boxes it equals  $27 \times 18 = 486$ .

5. A car manufacturer produces only red and blue models which come out of the final testing area completely at random. What are the odds that 5 consecutive cars of the same colour will come through the test area at a time?

a. 1 in 16   b. 1 in 125   c. 1 in 32   d. 1 in 25

**Answer:** A

**Explanation:**

Total 5 cars each can have any of the 2 colours, so the total possibilities are  $2 \times 2 \times 2 \times 2 \times 2 = 32$ .  
The Favourable outcome is the same colour for all the 5 cars = 2 (all 5 are red or all 5 are blue.)

Hence the probability =  $\frac{2}{32} = \frac{1}{16}$ . OR

$2 \times \left(\frac{1}{2}\right)^5 = 1 \text{ in } 16$

As there are 5 Cars and 2 types.

6. Susan made a block with small cubes of 8 cubic cm volume. To make the block she used 3 small cubes long, 9 small cubes wide and 5 small cubes deep. She realizes that she has used more small cubes than she really needed. She realized that she could have glued a fewer number of cubes together to look like a block with same dimensions, if it were made hollow. What is the minimum number of cubes that she needs to make the block?

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**TCS Ninja - Quantitative Aptitude\_2** 7. A seamstress buys a certain amount of Gingham

cloth which comes in rolls that are exactly 56 inches wide. She has also bought a certain length of Seek sucker cloth and 35 inches wide. The seamstress first focuses on the Gingham roll and discovers that she has 116 yards of Gingham and she wants to divide the gingham into 116 lengths of 1 yard each. She wants to have twice as many pieces of seek sucker as she does of the Gingham. It takes 4 seconds to cut each length of Gingham. Working non-stop, how long (in seconds) will it take her to cut all 116 pieces?

a.464 b.460 c.463 d.465

**Answer:** B

**Explanation:**

To make 116 pieces she needs 115 cuts. Because for n cuts we will have (n+1) pieces. For cutting 1 piece it takes 4 sec. it will be  $115 \times 4 = 460$ .

8. A triangle is made from a rope. The sides of the triangle are 25 cm, 11 cm and 31 cm. What will be the area of the square made from the same rope?

a. 280.8565 b. 280.5625

c. 281.5646 d. 282.5624 **Answer:** B

**Explanation:**

Length of the rope =  $25 + 11 + 31 = 67$  cm,

Side of the square =  $67 / 4 = 16.75$  cm,

Area of the square =  $(\text{side of the square})^2 = 16.75^2 = 280.5625 \text{ cm}^2$

9. Mr. Alex is the father of children Jane, Joe, and Jill. He goes to a nearby park twice a week. He loves his children very much. On a certain day, on his way to the park he finds fruit vendors selling different fruits. Watermelon is one penny each, dates at 2 for a penny and plums at 3 for a penny. Mr. Alex spent 7 pennies and got the same amount of each type of fruit for each of his three children. What did each child get?

a. 1 Watermelon, 2 Dates, 1 plum b. 1 Watermelon, 1 Date, 1 plum c. 1 Watermelon, 3 Dates, 2 plums d. 1 Watermelon, 2 Dates, 2 plums

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a. 114

**Answer:** A

**Explanation:**

b. 135

c. 21

d. 71

The total volume (in terms of number of cubes) of the solid =  $3 \times 9 \times 5 = 135$

The total volume (in terms of number of cubes) of the hollow =  $(3-2) \times (9-2) \times (5-2)$

= 21

So number of cubes required =  $135 - 21 = 114$

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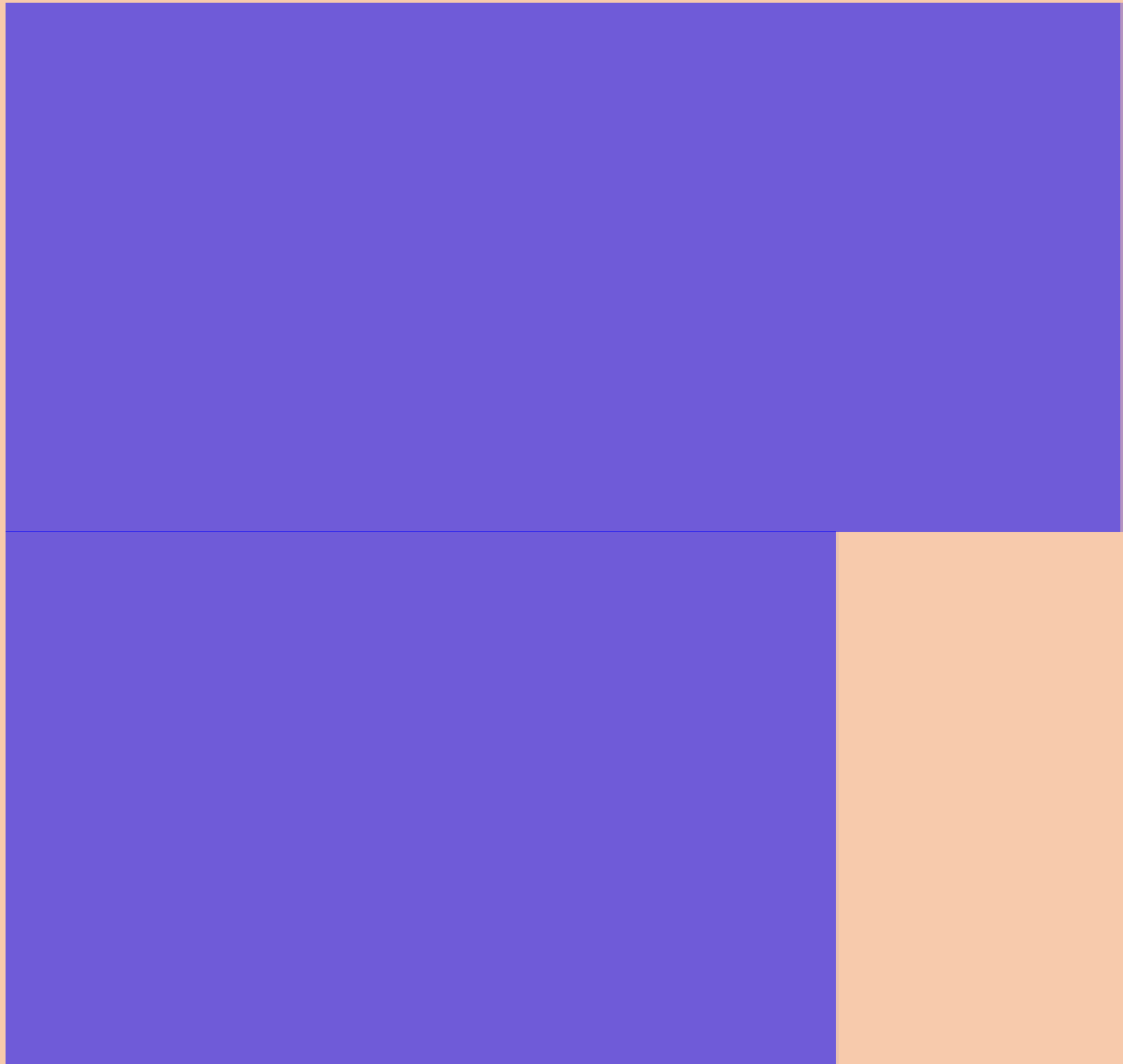
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**FACE Answer:** A

**Explanation:**

You can check through the option and find it. if we take option 1.it is given that 1 watermelon,2 dates,1 plum for each child. So, he should have bought 3 watermelon, 6 dates, and 3 plums for all the three. But it is given that he spends only 7 pennies. When you check the cost of all the fruits .the only option satisfies the given condition is 1 Watermelon, 2 Dates and 1 Plum.

**10.** An athlete decides to run the same distance in  $\frac{1}{4}$ th less time that she usually took. By how much percent will she have to increase her average speed?

**TCS Ninja - Quantitative Aptitude\_2 12.** On planet Korba, a solar blast has melted the ice

caps on its equator. 9 years after the ice melts, tiny planetoids called echina start growing on the rocks. Echina grows in the form of circle, and the relationship between the diameter of this circle and the age of echina is given by the formula,  $d = 4\sqrt{t-9}$  for  $t \geq 9$ , where d represents the diameter in mm and t, the number of years since the solar blast. Anubhav recorded the radius of some echina at a particular spot as 7mm. How many years back did the solar blast occur?

a. 17 b. 21.25 c. 12.25 d. 12.06 **Answer:** B

**Explanation:**

Radius=7mm.

So diameter= 14mm.

Putting D=14 in equation we can easily calculate  $t=21.25$ .

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**13.** How many 13 digit numbers are possible by using the digits 1, 2, 3, 4, 5 which are divisible by 4 if repetition of digits is allowed?

a.  $4 \times 5^{11}$  b. 512 c.  $5 \times 121$  d. 513

**Answer:** B

**Explanation:**

To be divisible by 4, last two digits must be divisible by 4. Which are 12, 24, 32, 44, 52 .so 5 combinations are possible for last two digits also 5 combinations each for remaining 11 places. so the answer is  $5^{12}$ .

**14.** In a family there are some boys and girls. All boys told that they are having equal number of brothers and sisters and girls told that they are having twice the number of brothers than sisters. How many boys and girls are present in a family?

a. 5boys&3girls b. 7boys&2girls c. 4boys&3girls d. 6boys&2girls

**Answer:** C

**Explanation:**

Let number of boys =b And number of girls=g;

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a. 0.25 b. 0.5

**Answer:** C

**Explanation:**

c. 0.3333

d. 0.2

Let original speed be  $s_1$  and time be  $t_1$

Then  $s_1 = d/t_1$  ---eqn 1 and according to ques new speed be  $s_2$  and time given is  $3t_1/4$  therefore  
 $s_2 = d/(3t_1/4)$  -----eqn 2 dividing eqn 2 by eqn 1  $s_2 = 4s_1/3$  increased speed =  $4s_1/3 - s_1$   
 $= 1s_1/3$  percent increase =  $[(1s_1/3)/s_1] * 100 = 33.33\% = 33.33/100 = 0.3333..$

**11.** A racehorse starts chasing a wild pony 3 hours after the pony bolts the stable. The pony runs through the entire country of Alb. Texas jumping 3 streams and crossing four 10 meter roads. The racehorse finally catches up with the pony after four hours by the time the sun had set and the moon was up in the sky for 4 hours. If the average speed of the racehorse is 73kmph then average speed of the wild pony is?

a. 54.75 kmph c. 31.29 kmph

**Answer:** D

**Explanation:**

b. 42.71 kmph d. 41.71 kmph

Distance covered by horse =  $73 * 4 = 292$  Total time taken by =  $3\text{hr} + 4\text{hr} = 7\text{hr}$  Speed of pony  
 $= 292/7 = 41.71$

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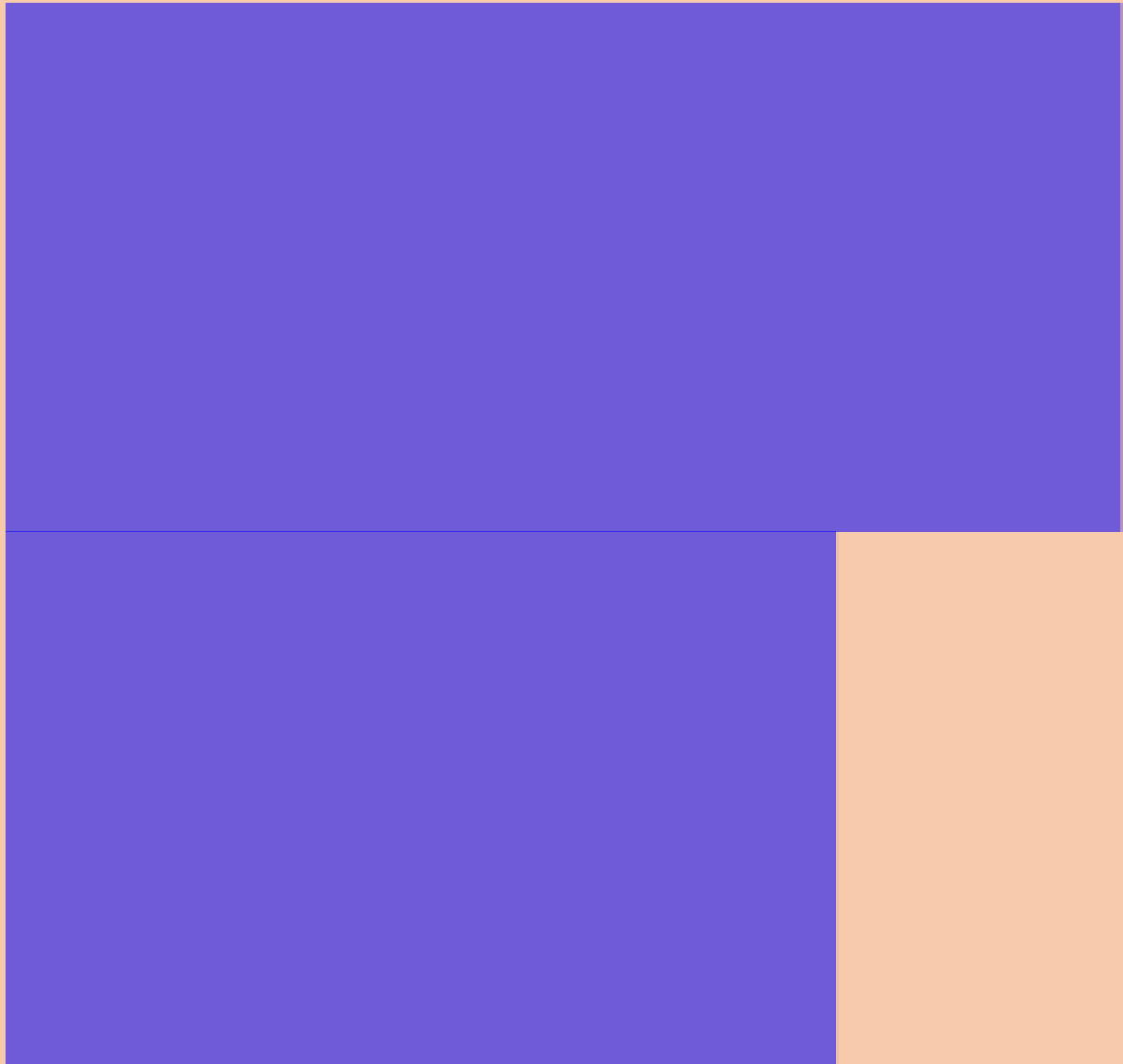
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#### **FACE**

Since each brother having equal no of brothers and sisters

So  $b-1=g$

Girls told that they are having twice the no. of brothers than sisters

$b=2(g-1)$

Therefore  $1+g=2g-2$

$g=3$  and  $b=1+3=4$

So answer is 4boys and 3 girls

**15.** Mr Behera wants to build a house for his wife. In his dream house there are 5 rooms each having equal area. The length of each room is 4 m, breadth is 5 m and the height is 2m. For every single unit of area, he requires 17 bricks, how many bricks are required to make the floor of a particular room?

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a. 340 b. 420 c. 280

**Answer:** A

**Explanation:**

Area of floor  $5 \times 4(l \times b) = 20$  sq.m 1 sq.m = 17 bricks  
So  $20 \text{ sq.m} = 20 \times 17 = 340$  bricks

d. 400

$$4(5z+4)=5y+1$$

$$y=4z+3 \text{ and } x=5z+4$$

The ratio of number of biscuits that A and B took is  $[(5z+4)+1]:[(4z+3)+1]=5:4$

So, we can say that any two successive persons A, B, C and D take coins in the ratio of 5:4

Let the number of biscuits that A, B, C and D took be a, b, c and d respectively.

$$a:b=b:c=c:d=5:4$$

$$a:b:c:d=125:100:80:64$$

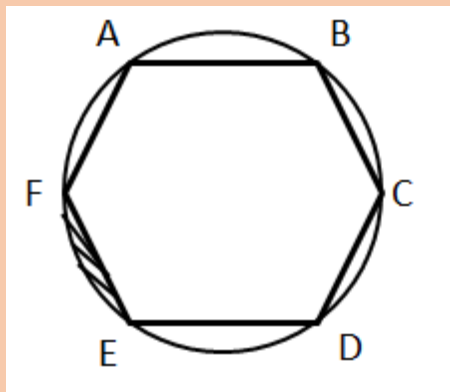
$$a=125k$$

$$x=125k-1 \text{ and } N=5x+1=625k-4$$

As,  $N > 1000$ , the least value of N is when  $k=2$

$$N=1246.$$

**17.** ABCDEF is a regular hexagon inscribed inside a circle. If the shortest diagonal of the hexagon is of length 3 units, what is the area of the shaded region?



**ADVANCE QUANTITATIVE APTITUDE**

**16.** There are N numbers of gold biscuits in the house, in which four people are lived. If the first men woke up and divided the biscuits into 5 equal piles and found one extra biscuit. He took one of those piles along with the extra biscuit and hid them. He then gathered the 4 remaining

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piles into a big pile, woke up the second person and went to sleep. Each of the other 3 persons did the same one by one i.e. divided the big pile into 5 equal piles and found one extra biscuit. Each hid one of the piles along with the extra biscuit and gathered the remaining 4 piles into a big pile. If  $N > 1000$ , what could be the least value of  $N$ ?

a.  $\frac{1}{6}(3\pi - (9\sqrt{3})/2)$  c.  $\frac{1}{6}(3\pi - (8\sqrt{3})/2)$

**Answer:** A

**Explanation:**

b.  $\frac{1}{6}(2\pi - (6\sqrt{3})/2)$  d.  $\frac{1}{6}(6\pi - (15\sqrt{3})/2)$

a. 1249

**Answer:** D

**Explanation:**

b. 1023

c. 1202

d. 1246

Let side of regular hexagon be  $a$ .

The shortest diagonal will be of length  $a\sqrt{3}$ . Why?

A regular hexagon is just 6 equilateral triangles around a point. The shortest diagonal is  $FD$ .  
 $FD = FP + PD$

$FOE$  is equilateral and so is  $EOD$ .

Diagonal  $FD$  can be broken as  $FP + PD$ , both of which are altitude of equilateral is.

$FP = (\sqrt{3}a)/2$

$FD = \sqrt{3}a$  = shortest diagonal

The question tells us that the shortest diagonal measures 3 cm.

Suppose  $N = 5x + 1$

A took  $(x+1)$  biscuit.

Now  $4x$  is of the form  $5y+1$  then  $x$  must be in the form  $5z+4$

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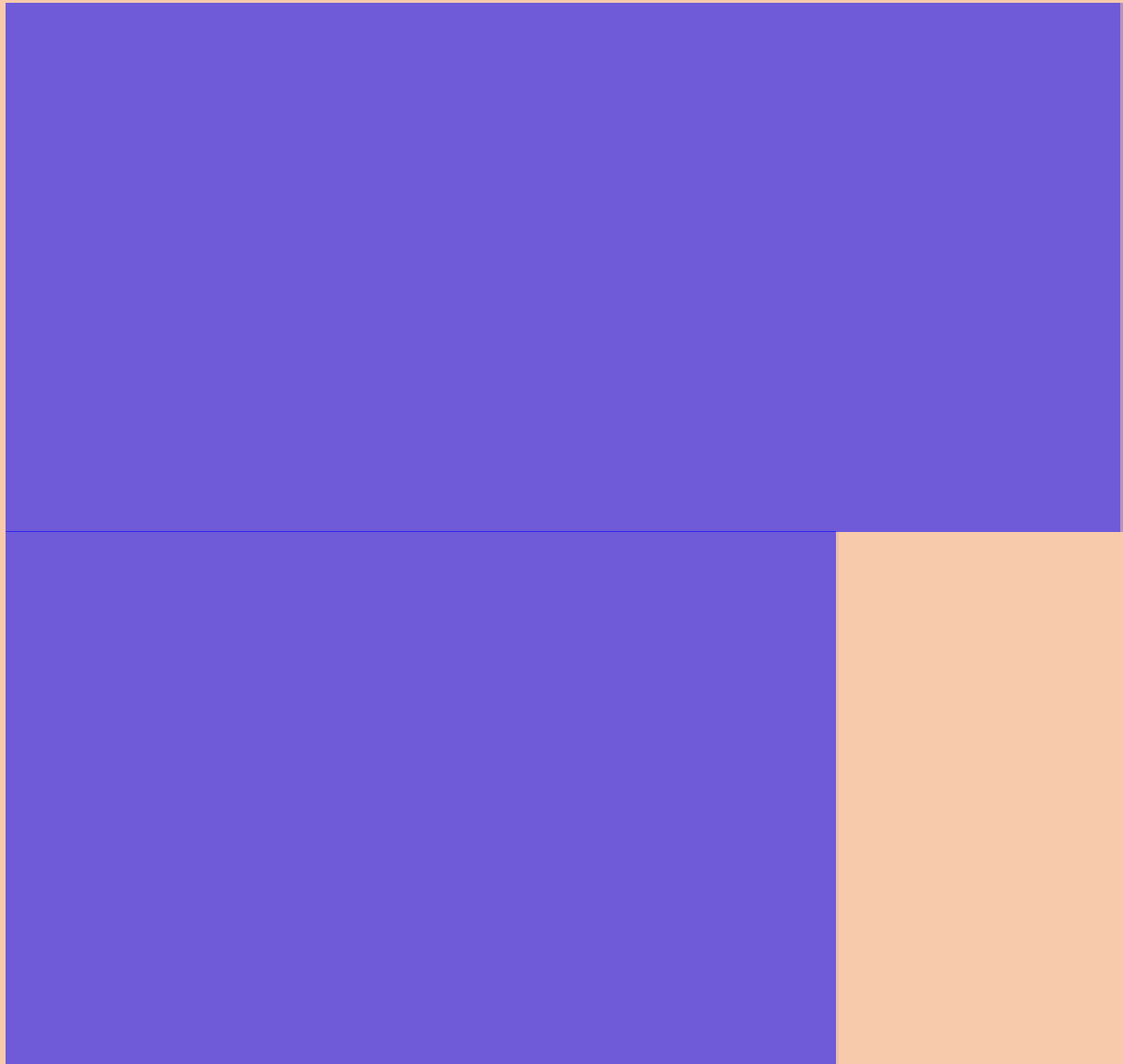
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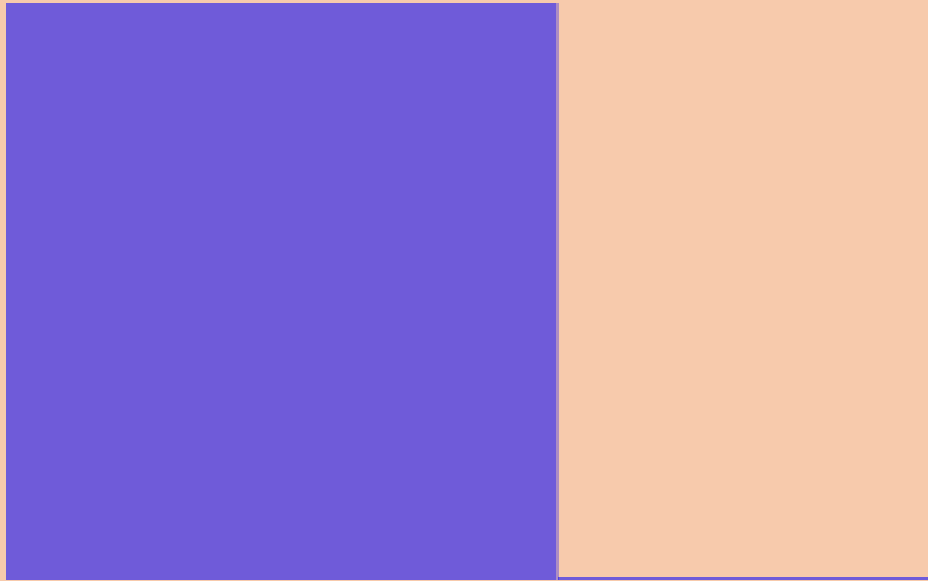
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$$\sqrt{3}a=3 \Rightarrow a=\sqrt{3}$$

$$\text{Radius of circle} = \sqrt{3}$$

$$\text{Area of hexagon} = (\sqrt{3} a^2)/4 \times 6$$

$$\text{Area of circle} - \text{area of hexagon} = \pi (\sqrt{3})^2 - \sqrt{3}/4 \times (\sqrt{3})^2 \times 6$$

$$= 3\pi - (9\sqrt{3})/2$$

$$\text{Area of shaded region} = 1/(6) (\text{area}(\text{circle}) - \text{area}(\text{hexagon}))$$

$$= 1/(6) (3\pi - (9\sqrt{3})/2)$$

**18.** Abhishek starts to paint a fence on one day. On the second day, two more friends of Abhishek join him. On the third day 3 more friends of him join him and so on. If the fence is completely painted this way in exactly 20 days, then find the number of days in which 10 girls painting together can paint the fence completely, given that every girl can paint twice as fast as Abhishek and his friends (Boys)? (Assume that the friends of Abhishek are all boys).

a.20 b.40 c.45 d.77

**Answer:** D

**Explanation:**

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**19.** Six friends decide to share a big cake. Since all of them like the cake, they begin quarrelling as to who gets to first cut and has a piece of the cake. One friend suggests that they blindfold a friend and then choose from a well shuffled set of cards numbered from one to six. You check and find that this method works as it should be simulating a fair throw of a die. You check by performing multiple simultaneous trials of picking the cards blindfolding and throwing a die. You note that the number shown by the method of picking up a card and throwing a real world die, sums up to a number between 2 and 12. Which total would be likely to appear more often 8, 9 or 10?

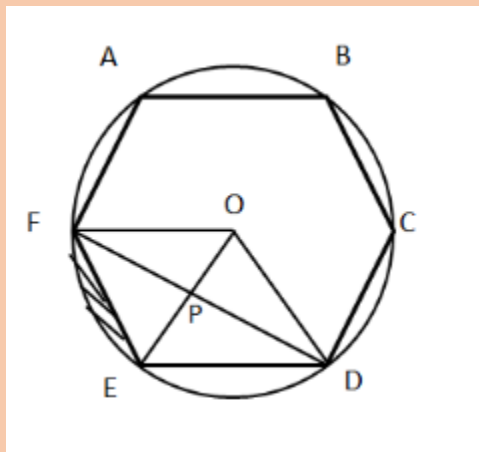
a. 8 b. 9 c. 10 d. All are equally likely.

**Answer:** A

**Explanation:**

The best solution will be 7, and there will be total 6 cases for this choice (1,6), (2,5), (3,4), (4,3), (5,2), (6,1) but this one is not in the choices so out of the 4 choices given 8 will be the best choice. For this choice there are 5 methods (2,6), (3,5), (4,4), (5,3), (6,2) Similarly for 9 there are 4 choices (3,6), (4,5), (5,4), (6,3) for 10 there are 3 choices (4,6), (5,5), (6,4) Answer is 8.

**20.** A research lab in Chennai requires 100 mice and 75 sterilized cages for a certain set of laboratory experiments. To identify the mice, the lab has prepared labels with numbers 1 to 100, by combining tags numbered 0 to 9. The SPCA requires that the tags be made of toxin-free material and that the temperature of the cages be maintained at 27 degree Celsius. Also, not more than 2 mice can be caged together and each cage must be at least 2 sq.ft in area. The 5 experiments to be conducted by lab are to be thoroughly documented and performed only after around of approval by authorities. The approval procedure takes around 48 hours. How many times is, the tag numbered '4' used by the lab in numbering these mice?



Number of men working on first day = 1  
Number of men working on second day = 3  
Number of men working on second day = 6 and so on..

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Total number of boys till the end of the work =  $[n(n + 1)(n+2)]/6$

$= [20 \times 21 \times 22]/6 = 1540$

Given that every girl paints twice as fast as Abhishek's friends.

Hence, 20 girls work is being done.

Thus, the number of days taken to paint the fence =

$1540/20 = 77$ .

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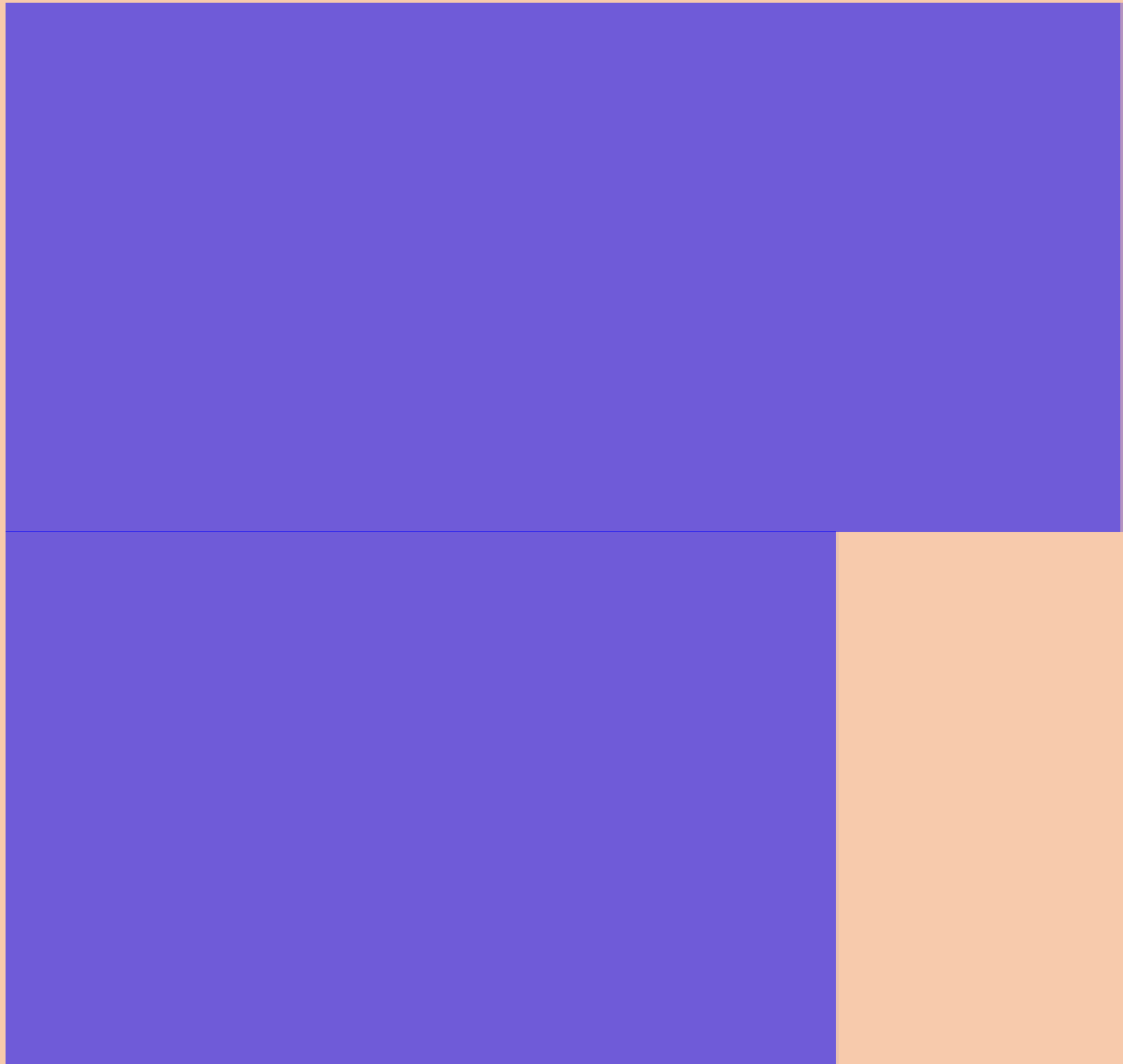
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a.9 b.19 c.20 d.21 **Answer: C**

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**FACE TCS Ninja - Quantitative Aptitude\_2 Explanation:**

Just count the number of 4's from 1 to 100.it will give you 20.

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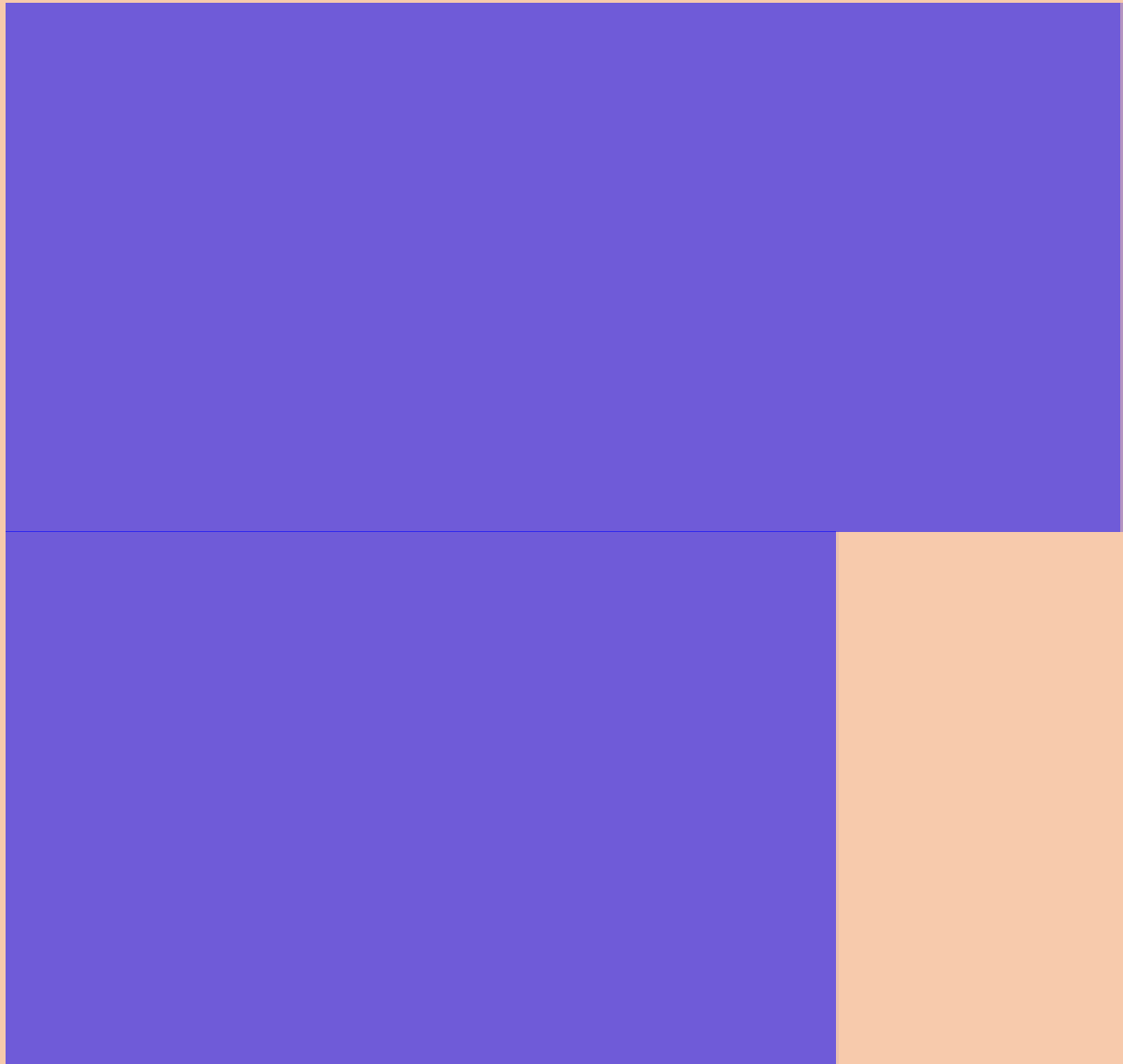
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