

INDIAN SCHOOL AL WADI AL KABIR

Holiday Homework

Class:VII Mathematics 18/12/2018

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| Q.No | Questions | Ans |
| 1 | Find the perimeter of the rectangles whose dimensions are given below :   1. Length 7.5 m, breadth 3.2 m 2. Length 400m, breadth 80 m | 21.4m  960m |
| 2 | A man covers a distance of 48 m while going around a square field twice. Find the side of the square. How much wire will be needed for fencing around it once? Find the cost of the wire if 1m costs ₹1.75 | 6m  24m  ₹42 |
| 3 | A door of length 4m and breadth 3m is fitted in the wall. The length of the wall is 15.4m and width is 12.3m. Find the remaining area of the wall. Also find the cost of whitewashing the wall at the rate of ₹20 per sq. m. | 177.42 sq. m  ₹3548.4 |
| 4 | A diagonal of a quadrilateral is 25cm in length. The lengths of the perpendiculars to it from the opposite vertices are 3.4 cm and 4.8cm. Find the area of the quadrilateral. | 102.5 sq.cm |
| 5 | Find the area of a parallelogram with base 13.5 cm and altitude 19cm. | 256.5sq cm |
| 6 | The area of a parallelogram is equal to the area of a square whose perimeter is 120m. If the height of the parallelogram is 20 m, find its corresponding base. | 45m |
| 7 | The length of a wooden slab is 12m and its width is 20 cm. Find the ratio of :   1. Its length to its width 2. Its width to its length | 60:1  1:60 |
| 8 | 12 men can repair a road in 28 days, how long will 84 men take to do so? | 4 days |
| 9 | A car dealer bought a second-hand car for ₹1,50,000. He spent ₹12,500 on its repairs and painting and then sold it for ₹1,70,000. Find its profit or loss percentage. | 4.62% |
| 10 | Savitha bought a calculator for ₹325. She sold it to Geeta at 12% profit. Find the selling price of the calculator. | ₹364 |
| 11 | You have ₹2400 in your account and the interest rate is 5%p.a. After how many years would you earn ₹240 as interest? | 2 years |
| 12 | Rita spends 52% of her pocket money on magazines and 23% on movies. If her pocket money was ₹144, what amount of her pocket money is left? | ₹36 |
| 13 | Check whether the following angles can form a triangle:   1. 35°, 24°, 121° 2. 67°, 28°, 80° | Yes  no |
| 14 | Find the value of x and y in the given figure | X=50°  Y=130° |

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| 15 | A ladder 15m long is placed against a wall to reach a window 12m high. Find the distance of the foot of the ladder from the wall. |  |
| 16 | Construct a line PQ parallel to a line AB at a distance of 4.5 cm from it. |  |
| 17 | Construct a right- angled triangle whose hypotenuse is 4.8cm, and one of the angle is 30°. |  |
| 18 | Construct a triangle PQR in which PQ =7.5cm, <P=<Q=45°. |  |
| 19 | In the given figure, <ABC=<BAD and BC=AD. Prove that AC=BD |  |
| 20 | Prove that in a parallelogram, the diagonal divides it into two congruent triangles. |  |

Happy New Year 2019