

SASMO Grade 5 (Primary 5) Sample Questions

1. Given that $5!$ means $5 \times 4 \times 3 \times 2 \times 1$, find the last digit of $2014!$.

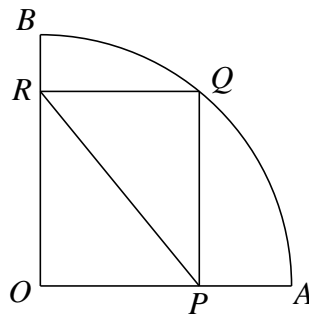
2. A shop sells sweets where every 3 sweet wrappers can be exchanged for one more sweet. Navin has enough money to buy only 29 sweets. What is the biggest number of sweets that he can get from the shop?

3. Find the next term of the following sequence: 2, 3, 4, 10, 38, ...

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4. The percentage passes in an exam for two classes are 80% and 60%. The numbers of students in the two classes are 20 and 30 respectively. Find the overall percentage pass for the two classes.

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5. The diagram shows a quadrant OAB of a circle with centre O . $OPQR$ is a rectangle. Given that $PR = 7$ cm, find the length of OA .



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6. Find the value of

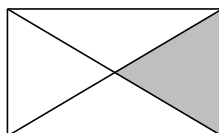
$$\left(1 - \frac{1}{2}\right) \times \left(1 - \frac{1}{3}\right) \times \left(1 - \frac{1}{4}\right) \times \dots \times \left(1 - \frac{1}{2014}\right)$$

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7. A frog fell into a drain that was 50 cm deep. After one hour, it mastered enough energy to make a jump of 6 cm but it then slid down 4 cm. If it continued in this manner after every one hour, how many hours will it take to get out of the drain?

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8. A farmer's chickens produced 4028 eggs one day. Was he able to pack all the eggs in *full* cartons of one dozen eggs each?

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9. The diagram shows a rectangle with its two diagonals. What percentage of the rectangle is shaded?



10. Find the value of $\frac{1}{2} + \frac{1}{6} + \frac{1}{12} + \frac{1}{20} + \dots + \frac{1}{9900}$.

End of paper

<u>Solutions</u>	
1.	0
2.	43
3.	378
4.	68
5.	7 cm
6.	$\frac{1}{2014}$
7.	23 hours
8.	No
9.	25%
10.	$\frac{99}{100}$