

**1** What's the highest number you can get when you roll two six-sided dice and multiply the numbers?

**2** If it takes 5 machines 5 minutes to make 5 gadgets, how long would it take 100 machines to make 100 gadgets?

**3** A triangle has one angle that is  $90^\circ$ , and another that is  $45^\circ$ . What is the third angle?

**4** Nina has six siblings who were born two years apart. Kevin the youngest is 7 years old, while Nina is the oldest. How old is Nina?

**5** THERE IS A PATCH OF LILY PADS ON A LAKE. EVERY DAY THE PATCH DOUBLES IN SIZE. IF IT TAKES 48 DAYS FOR THE PATCH TO COVER THE ENTIRE LAKE, HOW LONG WOULD IT TAKE FOR THE PATCH TO COVER HALF THE LAKE?

**MATHS** riddles  
& **BRAIN TEASERS**  
to blow your mind

**5** There are 12 kids in a class. 6 kids are wearing socks, 4 are wearing shoes and three are wearing both. How many kids have bare feet?

**7** Mr Kim has five sons. Each of his sons has a sister. How many children does Mr Kim have?

**8** Tom was asked to paint numbers on the doors of a block of flats. There are 100 flats in the building. How many times will he have to paint the number 8?

**9** IF YOU MULTIPLY ME BY ANY OTHER NUMBER - THE ANSWER WILL ALWAYS BE THE SAME. WHAT NUMBER AM I?

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**10** When Pam was 8, her sister was half her age. Now Pam is 14. How old is her sister?

**11** I am between 1 and 5, I am less than 4 and more than 2. What am I?

**12** The number 5 is transformed to be 11. The number 7 is transformed to be 15. The number 9 is transformed to be 19. What happens to the number 12?



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Mathematics  
Learner's Book

8  
Grade



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**ANSWERS:** 1. 36, 2. 5 minutes (Each machine makes 1 gadget in 5 minutes), 3. Sum of angles in a triangle =  $180^\circ$  So,  $180 - 90 - 45 = 45^\circ$ , 4. 7 + 2 + 2 + 2 + 2 = 19, 5. 1, 2, 3, 6, 5, 7, 6 (they each have the same sister), 8. 20, 9. 0, 10. Pam's sister is 4 years younger. So she is ten, 11. 3, 12. 25. The formula: A times 2 and then +1.