



1

Practicing Kangaroo:

How many numbers are greater than 10 and less than or equal to 31 which can be written with digits 1, 2 or 3 only? You can repeat digits.

- (A) 2 (B) 4 (C) 6 (D) 7 (E) 8

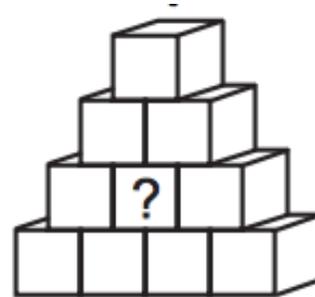
2

Rabbit Venya eats cabbages and carrots. Each day he eats either 10 carrots, or 2 cabbages. Last week Venya ate 6 cabbages. How many carrots did he eat?

- (A) 20 (B) 30 (C) 34 (D) 40 (E) 50

3

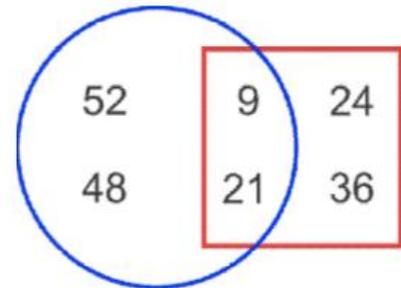
Tim has 4 red cubes, 3 blue cubes, 2 green cubes and 1 yellow cube. He builds a tower (see the picture) in such a way that no two adjacent cubes have the same color. What is the color of the middle cube?



- (A) red (B) blue (C) green (D) yellow

What is the sum of the numbers outside the square?

4



- (A) 30 (B) 60 (C) 90 (D) 45 (E) 100

Report the time you spent: _____ minutes



HW 19

Rotational Symmetry. Properties of multiplication.

5

Find all mistakes and correct them:

$7 \times 3 > 21$

$9 \times 9 > 79$

$7 \times 6 > 48$

$8 \times 9 < 76$

$42 < 7 \times 6$

$63 < 7 \times 9$

$6 \times 3 > 15$

$8 \times 4 > 24$

6

Calculate:

$20 \times 35 =$

$15 \times 100 =$

$250 \times 2 =$

$50 \times 5 =$

$25 \times 20 =$

$40 \times 50 =$

7

Solve word problems:

a) Amy brought 28 pencils to the class. Nick took 3 pencils, Mike took twice as many pencils as Nick took, and Natalie took 3 times more than Mike. How many pencils did Amy have in the end?

b) There were 10 passengers on a bus. At the first stop, 9 passengers got on the bus. 5 passengers got on the bus at the second stop, and 3 passengers got off. After two stops, how many people were on the bus, including the driver? _____

c) A taxi driver drove 3 kilometers from the airport to the bus station. Then he drove to the train station, which is 2 kilometers further away than the airport. Finally, he drove to the garage, which is 3 times further from the train station than the bus stop. How many kilometers did the taxi drive since it left the airport and arrived in the garage? _____

d) During playtime, Lisa, Katie, and Jack hid under their desks. Jack spent 2 minutes there, and Lisa sat under her desk twice as long as Jack. Katie spent 3 minutes longer than Lisa under her desk. How long did Katie spend under her desk? _____

8

Fill the blanks with numbers:

$12 + (6 \times \dots) = 24$

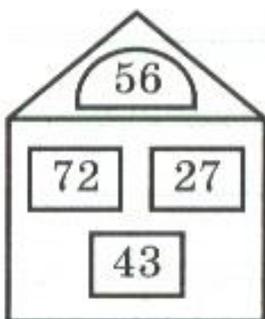
$29 + (6 \times \dots) = 53$

$19 + (6 \times \dots) = 54$

$45 + (6 \times \dots) = 93$

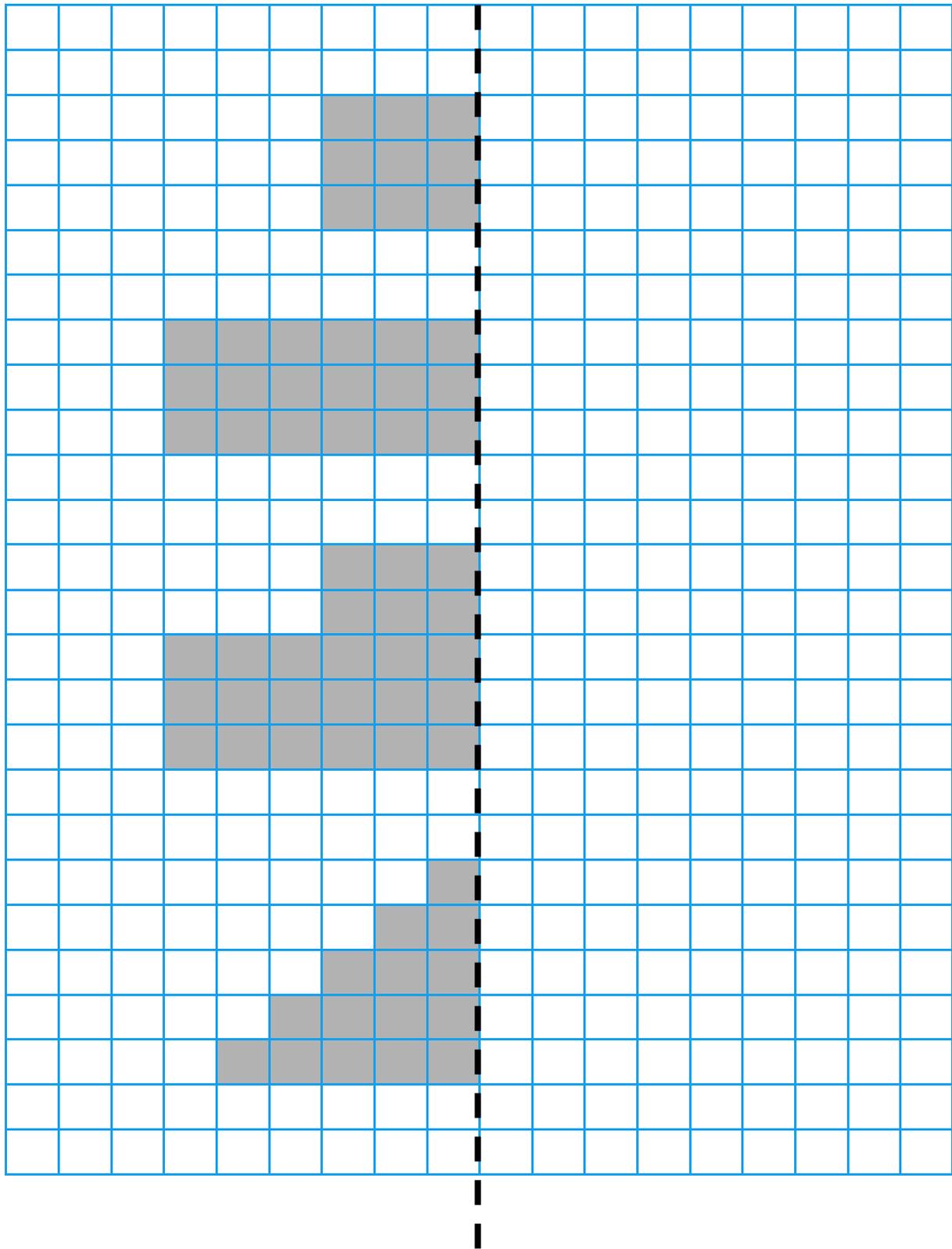
9

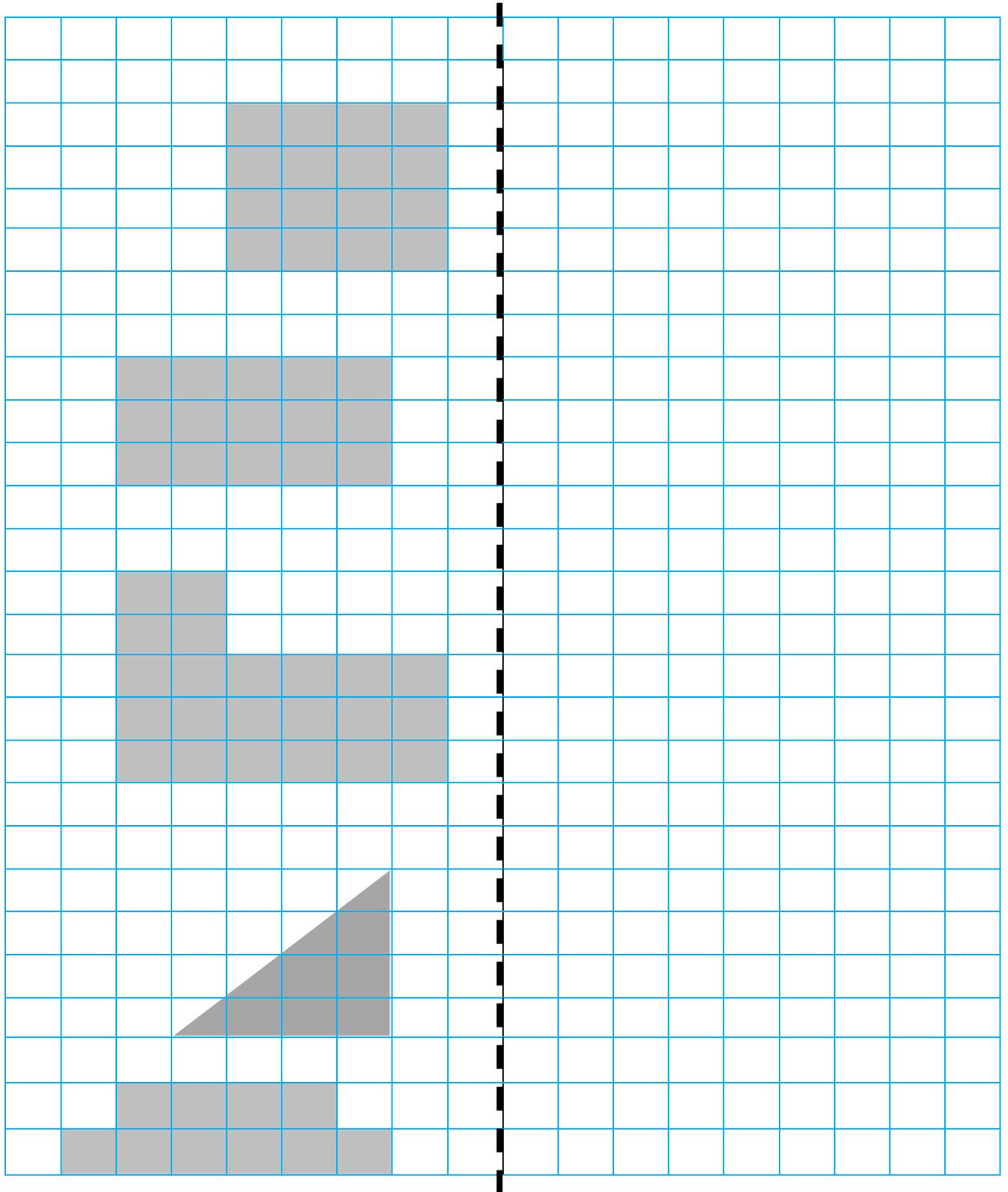
Try to figure out the pattern and find the missing number:



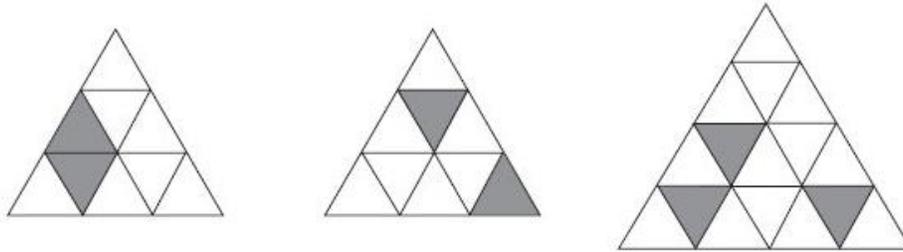
10

Insert a mirror image on the other side of the line of symmetry

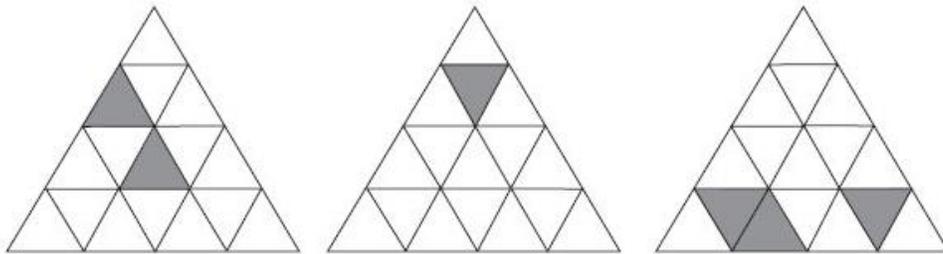




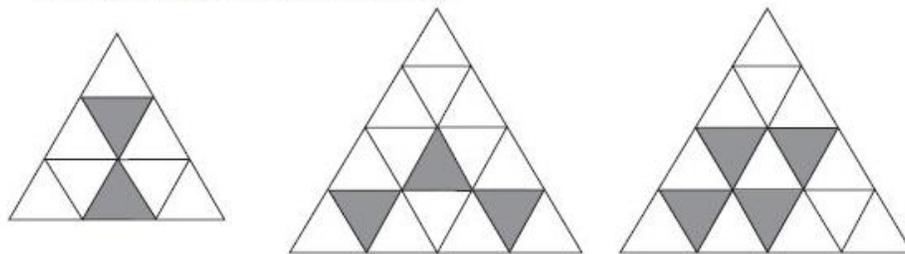
- (a) On each of these grids complete the shading so that the pattern has reflection but **not** rotation symmetry.



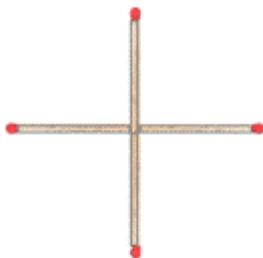
- (b) On each of these grids complete the shading so that the pattern has rotation but **not** reflection symmetry.



- (c) On each of these grids complete the shading so that the pattern has reflection **and** rotation symmetry.



1. Move one matchstick to make a square.



4. Take one away from seven matchsticks, then move two to leave zero.

