

Mathematics 10 Intro Quiz (Grade 9 Review)

1. Simplify:

a) $7x^3 - 4x^3 + 3x - 8x$

b) $(8r^2 + 4r + 17) - (r^2 + 4r - 9)$

2. Solve for the variable: (show your work and check)

a) $-36 = 9y$

b) $\frac{t}{7} = 4$

c) $12r - 24 = 48$

3. Simplify:

a) $5ab(4a^3b^2)$

b) $-(6a^4b^3)^2$

c) $\frac{-36p^3q^5}{9pq^3}$

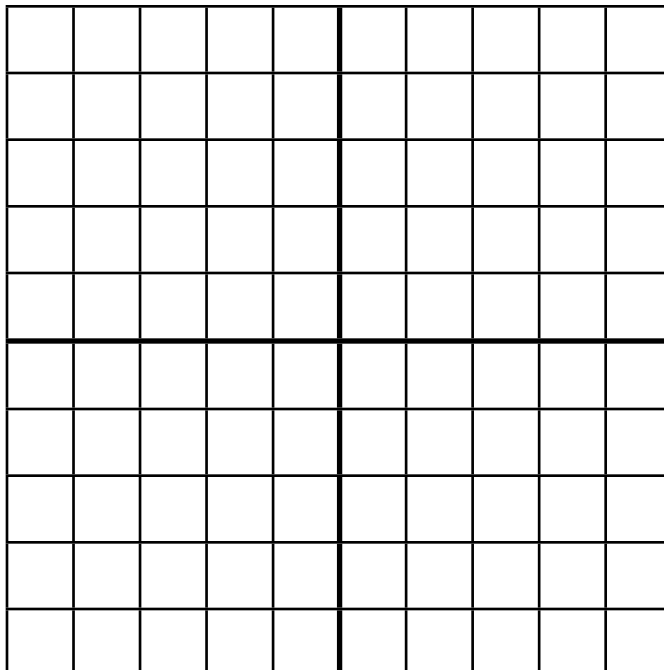
4. Determine the slope and the y-intercept given the following linear equation:

$y = 3x - 5$

slope =

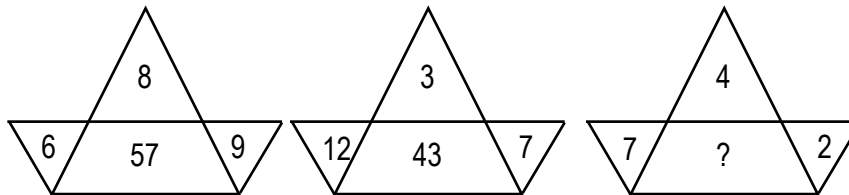
y-intercept =

5. Graph the linear equation $y = \frac{2}{3}x - 1$ on the grid provided

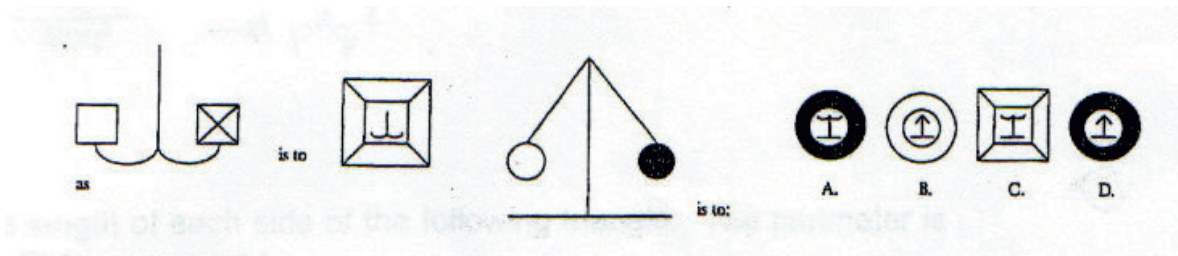


6. Brain Teasers:

- If you swallow one pill every half hour, how much time would it take you to swallow three pills?
- What would yesterday be if Thursday was four days before the day after tomorrow?
- What is the least number of toothpicks required to make five squares? Show your diagram.
- Divide twenty by one-half and add three. What is your answer?
- What number should replace the question mark? Explain.



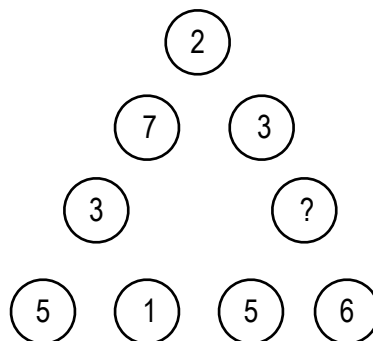
- Provide your reasoning for the answer you give to the problem below.



- In the table below, every number equals twice the sum of the two numbers to its immediate left. What is the value of z?

10	x	60	y	z
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- What number should appear in the circle with the question mark? Explain.



- Why was 6 afraid of 7?