MATH
MONKS
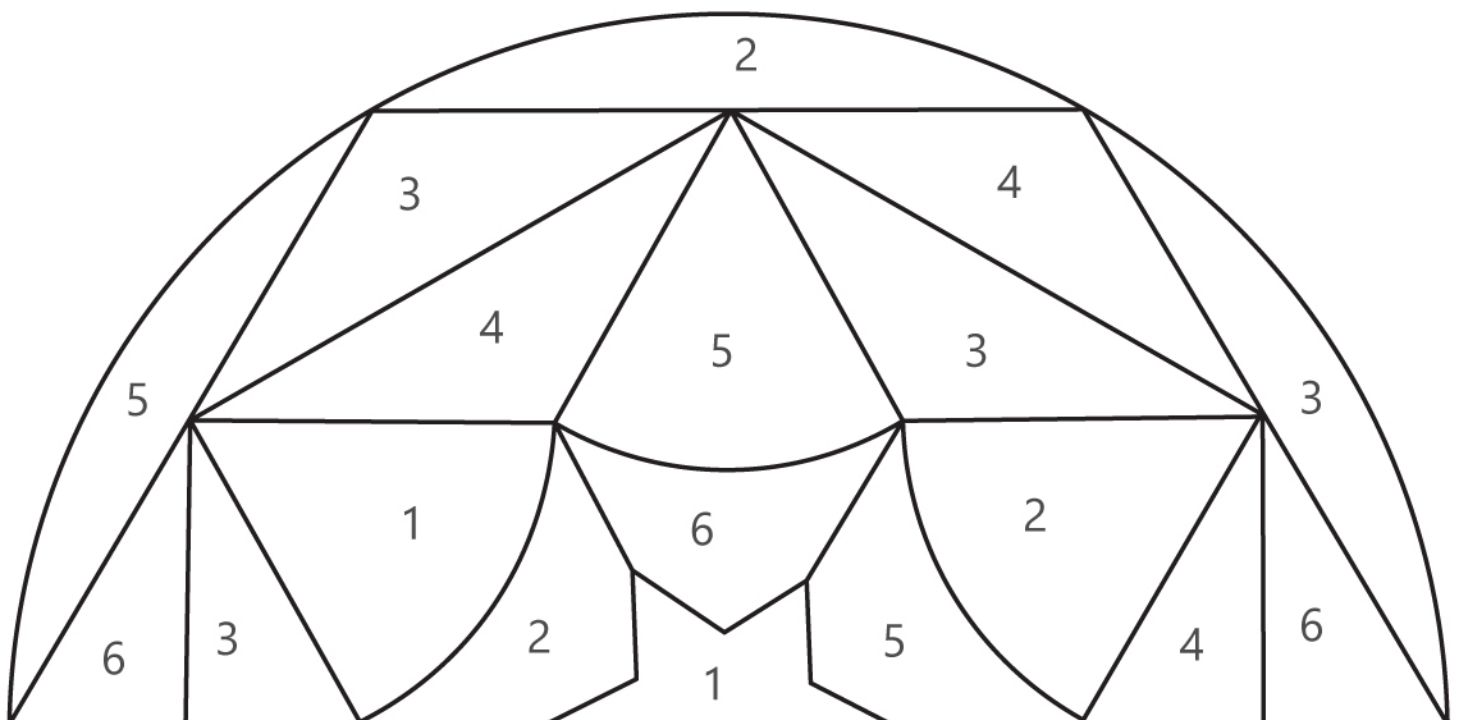
Special Products of Binomials

Solve for the special products. Then, choose the correct answer to each question to reveal the color code for coloring the picture below by the sum number.

Questions	Answers Options with Color Code		
① $(3x - 7)^2$	a. $9x^2 + 42x + 49$ (Red)	b. $9x^2 - 42x + 49$ (Blue)	c. $49x^2 + 42x + 9$ (Yellow)
② $(n + 6) \cdot (n - 6)$	a. $n^2 - 1296$ (Pink)	b. $(n + 6)^2$ (Violet)	c. $n^2 - 36$ (Green)
③ $(6m + 7)^2$	a. $36m^2 - 84m + 49$ (Grey)	b. $36m^2 + 84m + 49$ (Red)	c. $36m^2 - 49$ (Pink)
④ $(x^2 - 3x)^2$	a. $x^4 - 6x^3 + 9x^2$ (Orange)	b. $6x^4 - 6x^3 + 9x^2$ (Yellow)	c. $x^4 + 6x^3 + x^2$ (Grey)
⑤ $(2 - 7x)^2$	a. $4 + 49x + 28x^2$ (Red)	b. $4 + 28x + 49x^2$ (Blue)	c. $49x^2 - 28x + 4$ (Yellow)
⑥ $(a - 12)^2$	a. $a^2 - 24a + 144$ (Grey)	b. $a^2 - 144$ (Violet)	c. $a^2 - 12a + 12$ (Red)

Name: _____

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Answers

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① $(3x - 7)^2$	a. $9x^2 + 42x + 49$ (Red)	✓ b. $9x^2 - 42x + 49$ (Blue)	c. $49x^2 + 42x + 9$ (Yellow)
② $(n + 6) \cdot (n - 6)$	a. $n^2 - 1296$ (Pink)	b. $(n + 6)^2$ (Violet)	✓ c. $n^2 - 36$ (Green)
③ $(6m + 7)^2$	a. $36m^2 - 84m + 49$ (Grey)	✓ b. $36m^2 + 84m + 49$ (Red)	c. $36m^2 - 49$ (Pink)
④ $(x^2 - 3x)^2$	✓ a. $x^4 - 6x^3 + 9x^2$ (Orange)	b. $6x^4 - 6x^3 + 9x^2$ (Yellow)	c. $x^4 + 6x^3 + x^2$ (Grey)
⑤ $(2 - 7x)^2$	a. $4 + 49x + 28x^2$ (Red)	b. $4 + 28x + 49x^2$ (Blue)	✓ c. $49x^2 - 28x + 4$ (Yellow)
⑥ $(a - 12)^2$	✓ a. $a^2 - 24a + 144$ (Grey)	b. $a^2 - 144$ (Violet)	c. $a^2 - 12a + 12$ (Red)