



# Simplifying Algebraic Expressions

Name \_\_\_\_\_

Score \_\_\_\_\_

SAE:15

Factorize and write it in the simplest expression.

1) 
$$\frac{(2t - 1)(3t + 2)}{12t + 8}$$

2) 
$$\frac{49 - k^2}{7 + k}$$

3) 
$$\frac{3a^2 + 8ab + 5b^2}{9a^2 + 30ab + 25b^2}$$

4) 
$$\frac{(r + s)(3r - 2s)}{2s - 3r}$$

5) 
$$\frac{6x^2 + x - 15}{2x^2 - x - 3}$$

6) 
$$\frac{(7u + 6)^2}{49u^2 - 36}$$



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## Answer key

SAE:15

Factorize and write it in the simplest expression.

$$1) \frac{(2t - 1)(3t + 2)}{12t + 8}$$

$$\frac{2t - 1}{4}$$

$$2) \frac{49 - k^2}{7 + k}$$

$$7 - k$$

$$3) \frac{3a^2 + 8ab + 5b^2}{9a^2 + 30ab + 25b^2}$$

$$\frac{a + b}{3a + 5b}$$

$$4) \frac{(r + s)(3r - 2s)}{2s - 3r}$$

$$-r - s$$

$$5) \frac{6x^2 + x - 15}{2x^2 - x - 3}$$

$$\frac{3x + 5}{x + 1}$$

$$6) \frac{(7u + 6)^2}{49u^2 - 36}$$

$$\frac{7u + 6}{7u - 6}$$