

QUOTABLE PUZZLES

Expressions and Operations

A.2c

Directions: Solve the following problems. Match that answer to the correct letter of the alphabet. Enter that letter of the alphabet on the blank corresponding to the problem number.

$$\frac{11}{11} \quad \frac{15}{10} \quad \frac{10}{11} \quad \frac{11}{1} \quad \frac{1}{8} \quad \frac{8}{16} \quad \frac{16}{7} \quad \frac{7}{17} \quad \frac{12}{12} \quad \frac{5}{5} \quad \frac{11}{11} \quad \frac{2}{2} \quad \frac{16}{16} \quad \frac{17}{17} \quad \frac{6}{6} \quad \frac{4}{4} \quad \frac{3}{3}$$

$$\frac{14}{14} \quad \frac{8}{8} \quad \frac{7}{7} \quad \frac{9}{9} \quad \frac{6}{6} \quad \frac{4}{4} \quad \frac{3}{3} \quad \frac{12}{12} \quad \frac{16}{16} \quad \frac{6}{6} \quad \frac{13}{13}$$

A	B	C	D	E	F	G
$(x - 6)(x + 3)$	$(x - 2)(x + 4)$	$(x - 13)(x + 3)$	$(x + 2)(x - 3)$	$(x - 2)(x + 3)$	$(x + 8)^2$	$(x + 3)(x + 9)$

H	I	J	K	L	M
$(2x + 1)(3x - 2)$	$(3x + 5)(x + 1)$	$(3x + 1)(x + 5)$	$(x - 7)(x + 7)$	$(x - 2)(x - 8)$	$(x + 2)(x + 8)$

N	O	P	Q	R	S	T
$(x - 7)(x - 2)$	$(x + 7)^2$	$(x - 7)(x + 2)$	$(x + 2)(x - 8)$	$(x - 3)(x + 3)$	$(x - 20)(x + 3)$	$(x + 6)^2$

U	V	W	X	Y	Z
$(x - y)(x + y)$	$(x - y)(x - y)$	$(x - 3)^2$	$(x - 3)(x + 20)$	$(x - 6)(x - 2)$	$(x + 7)(x + 7)$

Factor:

1. $x^2 - 49$

10. $x^2 + x - 6$

2. $x^2 + 12x + 36$

11. $x^2 - 10x - 39$

3. $x^2 + 12x + 27$

12. $x^2 + 16x + 64$

4. $x^2 - 9x + 14$

13. $x^2 - 10x + 16$

5. $x^2 - 3x - 18$

14. $x^2 + 2x - 8$

6. $3x^2 + 8x + 5$

15. $6x^2 - x - 2$

7. $x^2 - y^2$

16. $x^2 + 14x + 49$

8. $x^2 - 8x + 12$

17. $x^2 - 9$

9. $x^2 - 17x - 60$