



Name _____ Class _____ Date _____

AFTER THIS WORKSHEET YOU CAN

- ✓ Factor out the greatest common factor. ✓ Factor quadratic trinomials. ✓ Factor a difference of squares.
 ✓ Recognise perfect-square trinomials.

Section A • Concept Check • BEGINNER $4 \times 1 = 4$ _____

- 1** Factor $5x^2 + 15x$:
☐ A. $5x(x+3)$ ☐ B. $5(x^2 + 3x)$ ☐ C. $x(5x+15)$
☐ D. $5x(x+15)$
- 2** Factor $x^2 + 9x + 20$:
☐ A. $(x+4)(x+5)$ ☐ B. $(x+2)(x+10)$ ☐ C. $(x-4)(x-5)$
☐ D. $(x+1)(x+20)$
- 3** Factor $x^2 - 25$:
☐ A. $(x+5)(x-5)$ ☐ B. $(x-5)^2$ ☐ C. $(x+5)^2$
☐ D. $(x+25)(x-1)$
- 4** Factor $x^2 - 7x + 12$:
☐ A. $(x-3)(x-4)$ ☐ B. $(x+3)(x+4)$ ☐ C. $(x-2)(x-6)$
☐ D. $(x-1)(x-12)$

Section B • Problem Solving • INTERMEDIATE $2 + 3 \times 3 = 11$ _____

- 5** The GCF of $5x^2 + 15x$ is _____.
- 6** $x^2 - 25$ factors as _____.
- 7** Factor $5x^2 + 15x$ using the GCF.

- 8** Factor $x^2 + 9x + 20$.

- 9** Factor $x^2 - 25$.

Section C • Challenge • CHALLENGE 5 _____

- 10** Factor $x^2 - 7x + 12$.

Reflection — the most useful thing I learned: _____

A ___/4 B ___/11 C ___/5 **Total ___/20**

Teacher's Signature _____

Parent's Signature _____

ANSWER KEY — FOLD OR CUT BEFORE HANDING OUT

1-A 2-A 3-A 4-A | 5 $5x$ 6 $(x+5)(x-5)$ 7 $= 5x(x+3)$ 8 $= (x+4)(x+5)$ 9 $= (x+5)(x-5)$ | 10
 $= (x-3)(x-4)$