

After Christmas Notes

Factor - 2 sums

18

$$x^2 + 11x + 18$$

1.18

What adds to get 11
and multiplies to get 18?

2.9

3.6

$$(x+2)(x+9)$$

Try

12

$$x^2 + 7x + 12$$

Factor - 2 differences

6

1.6

-1.-6

$$x^2 - 5x + 6$$

2.3

-2.-3

$$(x-2)(x-3)$$

Try

10

$$x^2 - 7x + 10$$

Factor - Trinomial Squares

16

1.16

-1.-16

$$x^2 + 8x + 16$$

2.8

-2.-8

$$(x+4)(x+4)$$

4.4

-4.-4

Try

25

$$x^2 - 10x + 25$$

Name _____

Factoring trinomials—two sums.

Factor—List all factor pairs for each number.

1) 12

2) 24

3) 60

4) 33

5) 6

6) 1

7) 14

8) 28

9) 25

10) 4

11) 16

12) 20

Factor each trinomial into two binomials.

13) $y^2 + 7y + 12$

14) $a^2 + 10a + 24$

15) $y^2 + 16y + 60$

16) $x^2 + 14x + 33$

17) $y^2 - 5y + 6$

18) $y^2 - 2y + 1$

$$19) a^2 - 9a + 14$$

$$20) y^2 + 16y + 28$$

$$21) y^2 + 10y + 25$$

$$22) a^2 + 4a + 4$$

$$23) y^2 + 8y + 16$$

$$24) y^2 - 9y + 20$$

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