

DO NOW

Factorize

1) $u^2 + 9uv - 70v^2$

2) $p^2 - 16pq - 36q^2$

5.5

DIFFERENCES OF TWO SQUARES

Observations...

1) $(x + 5)(x - 5)$

2) $(a - 9)(a + 9)$

3) $(m + d)(m - d)$

4) $(2n - 5)(2n + 5)$

5) $(a + 2b)(a - 2b)$

Formula (Pattern)

$$(a + b)(a - b) = a^2 - b^2$$

$$a^2 - b^2 = (a + b)(a - b)$$

Factorize

1) $n^2 - 4 =$

2) $x^2 - 121 =$

3) $4m^2 - 169 =$

4) $9a^2 - 64b^2$

Factorize

Use the pattern $(a + b)(a - b) = a^2 - b^2$
to help you solve the following:

$$57 \bullet 63$$

Factorize

Use the pattern $(a+b)(a-b) = a^2 - b^2$
to help you solve the following:

$$42 \bullet 38$$

Factorize

Use the pattern $(a+b)(a-b) = a^2 - b^2$
to help you solve the following:

$$25 \bullet 35$$

EXTENSION...

Factorize the following
(Clue factor out the GCF and then factorize it)

$$9) \ 3n^5 - 48n^3$$

$$10) \ 36a^2 - 16a^4$$