Quiz #3

Math Time pp. 13

1.#4

2.#5

3.#9

B.

1.#6

2.#7

3.#9

C.

1.#1

2.#2

3.#5

Quiz #3

A.

1.
$$(m)^3 + (5)^3$$

= $(m+5)(m^2 - 5m + 25)$
2. $(4)^3 - (b)^3$

$$= (4-b)(16+4b+b^2)$$

3.
$$(10)^3 + (y)^3$$

= $(10+y)(100-10y+y^2)$

B.

1.
$$125(8n^3 - m^3)$$

= $125[(2n)^3 - (m)^3]$

$$= 125 (2n - m) (4n^2 + 2mn + m^2)$$

2.
$$3(27x^3 + 64y^3)$$

= $3[(3x)^3 + (4y)^3]$
= $3(3x+4y)(9x^2 - 12xy + 16y^2)$

3.
$$a^{2}b(a^{3}b^{3}+1)$$

= $a^{2}b[(ab)^{3}+(1)^{3}]$
= $a^{2}b(ab+1)(a^{2}b^{2}-ab+1)$

C.

1.
$$(x-y)$$

2.
$$(25a^2 - 5a + 1)$$

3.
$$(2p+5q)^3$$