**CW – Multiplication Shortcuts Name\_\_\_\_\_\_**

1. Semi - Mental Math shortcuts - Multiplication

 *TIP: Look for partial products of 10, 100, and 1000.*

EXAMPLES: *Look for 10s and 100s*

*OR*

5  25  2 = 25  20 =

 *10  25 = 250 25  2  10 25  4  5 =*

 *50  10 = 500 100 5 = 500*

a) 2  44  5 = \_\_\_\_\_\_ b) 28  5 = \_\_\_\_\_\_

 *14  2  ?*

c) 5  36 = \_\_\_\_\_\_ d) 50  200 = \_\_\_\_\_\_

e) 2  25  18 = \_\_\_\_\_\_ f) 40  22 = \_\_\_\_\_\_

 *\_\_\_  2  \_\_\_*

g) 404  25 = \_\_\_\_\_\_ h) 24  25 = \_\_\_\_\_\_

 *\_\_\_  4  \_\_\_*



\*i) 48  125 = \_\_\_\_\_\_

 *\_\_\_  4  25  \_\_\_*

#2. Find the pattern

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  Figure 1 |  Figure 2 |  Figure 3 |  Figure 4 |  Figure 5 | LEVEL 2: Figure # 10? | LEVEL 3: Figure #20? | LEVEL 3:  Figure n? |
|  Number of squares | 5 | 10 |   |  |  |  |  |  |

**#3 Powers of 10**

 a) 203  40

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 1,000 | 100 | 10 | 1 | 0.1 |
| *Before:*  |  |  |  |  |  |
|  4 |  |  |  |  |  |
|  10 |  |  |  |  |  |

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 b) 2,008 ÷ 40

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 1,000 | 100 | 10 | 1 | 0.1 |
| *Before:*  |  |  |  |  |  |
| ÷ 4 |  |  |  |  |  |
| ÷ 10 |  |  |  |  |  |

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 c) 2130 $÷ $ 3

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 1,000 | 100 | 10 | 1 | 0.1 |
| *Before:*  |  |  |  |  |  |
|  ÷ 3 |  |  |  |  |  |
|  ÷ 100 |  |  |  |  |  |

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**#4 Multiplication Diamonds:**

Multiply



0

70

70

63

7

28

7

6

6

5

7

71

17

16



add

Logic Problem – 2 puzzle points



The Byronville Gaming Club holds one "game night" each month, at which a number of members gather to play a different board game.

**Clues**

**1.** Android Disco, the board game hosted at Olive's house and the game hosted at Felicia's house were all different games.

**2.** Rules of War was played in February.

**3.** Stealth was hosted by Felicia.

**4.** The board game played in January was either Android Disco or the board game hosted at Yolanda's house.

**5.** The board game hosted at Yolanda's house was played 2 months before Android Disco.