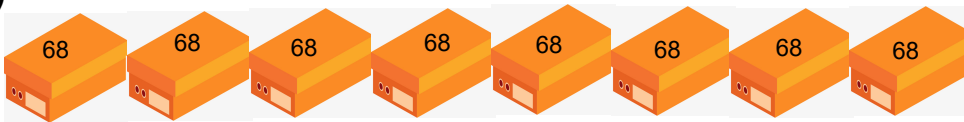


## Warm Up

Review of Multiplication  
Two or Three Digit by One Digit

1)



In the box there are 68 cards. Sarah has 8 boxes. How many cards does Sarah have in all? Show your work without a calculator.

$$\begin{array}{r} 68 \\ \times 8 \\ \hline 544 \end{array}$$

Sarah has a total of 544 cards.

- 2) There are 32 candy in one bag, how many candy do you have if you have 9 bags?



$$\begin{array}{r} 32 \\ \times 9 \\ \hline 288 \end{array}$$

If you have 9 bag you will have 288 candies.

# Homework Solutions

## Worksheet from yesterday

$$\begin{array}{r} 1) \quad 0.9 \\ + 2.2 \\ \hline 3.1 \end{array}$$

$$\begin{array}{r} 2) \quad 1.7 \\ + 0.5 \\ \hline 2.2 \end{array}$$

$$\begin{array}{r} 3) \quad 4.78 \\ - 2.90 \\ \hline 1.88 \end{array}$$

$$\begin{array}{r} 4) \quad 7.6 \\ - 2.9 \\ \hline 8.7 \end{array}$$

$$\begin{array}{r} 5) \quad 4.7 \\ + 0.3 \\ \hline 5.0 \end{array}$$

$$\begin{array}{r} 6) \quad 2.60 \\ + 2.28 \\ \hline 4.88 \end{array}$$

$$\begin{array}{r} 7) \quad 5.37 \\ + 6.40 \\ \hline 11.77 \end{array}$$

$$\begin{array}{r} 8) \quad 3.2 \\ + 4.3 \\ \hline 7.5 \end{array}$$

$$\begin{array}{r} 9) \quad 7.5 \\ + 2.2 \\ \hline 9.7 \end{array}$$

$$\begin{array}{r} 10) \quad 3.5 \\ + 1.3 \\ \hline 4.8 \end{array}$$

$$\begin{array}{r} 11) \quad 6.300 \\ 6.400 \\ + 6.136 \\ \hline 18.836 \end{array}$$

$$\begin{array}{r} 12) \quad 6.02 \\ 11.50 \\ + 6.80 \\ \hline 24.32 \end{array}$$

$$\begin{array}{r} 13) \quad 0.1 \\ 7.0 \\ + 6.4 \\ \hline 13.5 \end{array}$$

$$\begin{array}{r} 14) \quad 7.66 \\ 2.60 \\ + 6.00 \\ \hline 16.26 \end{array}$$

$$\begin{array}{r} 15) \quad 102.90 \\ 12.10 \\ + 4.06 \\ \hline 119.06 \end{array}$$

$$\begin{array}{r} 16) \quad 8.80 \\ - 1.34 \\ \hline 6.66 \end{array}$$

$$\begin{array}{r} 17) \quad 810 \quad 91.45 \\ - 3.50 \\ \hline 87.95 \end{array}$$

$$\begin{array}{r} 18) \quad 5.43 \\ + 1.50 \\ \hline 6.93 \end{array} \quad \begin{array}{r} 6.93 \\ - 3.30 \\ \hline 3.63 \end{array}$$

$$\begin{array}{r} 19) \quad 617 \quad 816.62 \\ - 297.00 \\ \hline 489.62 \end{array}$$

$$\begin{array}{r} 20) \quad 4.765 \\ + 0.400 \\ \hline 5.165 \end{array}$$

2(a) 14.3

b) 1247.7

Jim needs \$489.62 more  
for the phone

Tim travelled a total  
of 5.165 km

c) 0.3  
d) 43.0

22) 1.7590

23) 9.948

24) 9.06

25) 9.7

26) 5.52

27) 0.1613

$$\begin{array}{r} 4) \overset{4}{47} \\ \times \overset{6}{6} \\ \hline 282 \end{array}$$

$$\begin{array}{r} 5) \overset{2}{2}\overset{2}{5}4 \\ \times \overset{5}{5} \\ \hline 1270 \end{array}$$

6)

$$\begin{array}{r} 623 \\ \times 3 \\ \hline 1869 \end{array}$$

The diagram shows the multiplication of 623 by 3. Three arrows originate from the multiplier 3: a blue arrow points to the hundreds digit 6, a red arrow points to the tens digit 2, and a green arrow points to the ones digit 3. The product 1869 is written below the horizontal line, with the digits colored to match the arrows: 1 (blue), 8 (red), 6 (green), and 9 (black).

7)

$$\begin{array}{r} 936 \\ \times 7 \\ \hline 6552 \end{array}$$

The diagram shows the multiplication of 936 by 7. Three arrows originate from the multiplier 7: a blue arrow points to the hundreds digit 9, a green arrow points to the tens digit 3, and a red arrow points to the ones digit 6. Small exponents are placed above the digits: a green '2' above the 9, a red '4' above the 3, and a black '1' above the 6. The product 6552 is written below the horizontal line, with the digits colored to match the arrows: 6 (blue), 5 (red), 5 (green), and 2 (black).

Complete the following without the box and no calculators.

$$\begin{array}{r} 8) \overset{5}{2} \overset{1}{6} \overset{1}{2} \\ \times \quad 9 \\ \hline 2358 \end{array}$$

$$\begin{array}{r} 9) \overset{2}{6} \overset{1}{7} \overset{1}{2} \\ \times \quad 4 \\ \hline 2688 \end{array}$$

$$\begin{array}{r} 10) \overset{3}{9} \overset{4}{4} \overset{1}{7} \\ \times \quad 6 \\ \hline 5682 \end{array}$$



Two Digit by Two Digit

1)

$$\begin{array}{r}
 \overset{4}{18} \\
 \times 16 \\
 \hline
 108 \\
 + 180 \\
 \hline
 288
 \end{array}$$

2)

$$\begin{array}{r}
 \overset{3}{74} \\
 \times 58 \\
 \hline
 592 \\
 + 3700 \\
 \hline
 4292
 \end{array}$$

3)

$$\begin{array}{r}
 \overset{5}{26} \\
 \times 79 \\
 \hline
 234 \\
 + 1820 \\
 \hline
 2054
 \end{array}$$

Three Digit by Two Digit

1)

$$\begin{array}{r}
 567 \\
 \times 29 \\
 \hline
 5103 \\
 + 11340 \\
 \hline
 16443
 \end{array}$$

2)

$$\begin{array}{r}
 704 \\
 \times 36 \\
 \hline
 4224 \\
 + 21120 \\
 \hline
 25344
 \end{array}$$

3)

$$\begin{array}{r}
 928 \\
 \times 62 \\
 \hline
 1856 \\
 + 55680 \\
 \hline
 57536
 \end{array}$$



*do 4*

### 2-Digit by 1-Digit Multiplication (A)

Use the grid to help you multiply each pair of factors.

$\begin{array}{r} 53 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 93 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 89 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 73 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 90 \\ \times 4 \\ \hline \end{array}$
$\begin{array}{r} 37 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 59 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 36 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 92 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 97 \\ \times 7 \\ \hline \end{array}$
$\begin{array}{r} 15 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 97 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 24 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 21 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 16 \\ \times 3 \\ \hline \end{array}$
$\begin{array}{r} 46 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 21 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 95 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 22 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 66 \\ \times 3 \\ \hline \end{array}$
$\begin{array}{r} 40 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 43 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 34 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 59 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 59 \\ \times 9 \\ \hline \end{array}$
$\begin{array}{r} 48 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 87 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 61 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 15 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 17 \\ \times 5 \\ \hline \end{array}$

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**2-Digit by 2-Digit Multiplication (A)**  
Use the grid to help you multiply each pair of factors.

*do 5* ✓ ↓

	8	2	
×	4	1	
<hr/>			
<hr/>			

✓

	4	4	
×	4	2	
<hr/>			
<hr/>			

	2	5	
×	1	0	
<hr/>			
<hr/>			

	9	3	
×	8	6	
<hr/>			
<hr/>			

✓

	7	2	
×	8	7	
<hr/>			
<hr/>			

	4	3	
×	1	0	
<hr/>			
<hr/>			

	6	2	
×	5	2	
<hr/>			
<hr/>			

	5	6	
×	9	6	
<hr/>			
<hr/>			

✓

	9	1	
×	4	7	
<hr/>			
<hr/>			

	9	4	
×	8	3	
<hr/>			
<hr/>			

	7	5	
×	1	3	
<hr/>			
<hr/>			

	3	4	
×	9	8	
<hr/>			
<hr/>			

✓

	2	3	
×	4	8	
<hr/>			
<hr/>			

	4	4	
×	6	2	
<hr/>			
<hr/>			

	7	9	
×	9	7	
<hr/>			
<hr/>			

	9	9	
×	6	5	
<hr/>			
<hr/>			

**2-Digit by 2-Digit Multiplication (A)**

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_ /20

Calculate each product.

$$\begin{array}{r} 14 \\ \times 83 \\ \hline \end{array}$$

$$\begin{array}{r} 93 \\ \times 65 \\ \hline \end{array}$$

$$\begin{array}{r} 82 \\ \times 60 \\ \hline \end{array}$$

$$\begin{array}{r} 77 \\ \times 11 \\ \hline \end{array}$$

$$\begin{array}{r} 52 \\ \times 80 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \\ \times 83 \\ \hline \end{array}$$

$$\begin{array}{r} 49 \\ \times 55 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ \times 18 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \\ \times 61 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ \times 51 \\ \hline \end{array}$$

$$\begin{array}{r} 92 \\ \times 32 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \\ \times 65 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \\ \times 67 \\ \hline \end{array}$$

$$\begin{array}{r} 96 \\ \times 17 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \\ \times 11 \\ \hline \end{array}$$

$$\begin{array}{r} 60 \\ \times 21 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ \times 34 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \\ \times 53 \\ \hline \end{array}$$

$$\begin{array}{r} 37 \\ \times 76 \\ \hline \end{array}$$

$$\begin{array}{r} 57 \\ \times 57 \\ \hline \end{array}$$

**3-Digit by 2-Digit Multiplication (A)**

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_ /20

Calculate each product.

$$\begin{array}{r} 435 \\ \times 72 \\ \hline \end{array}$$

\_\_\_\_\_

$$\begin{array}{r} 325 \\ \times 54 \\ \hline \end{array}$$

\_\_\_\_\_

$$\begin{array}{r} 804 \\ \times 79 \\ \hline \end{array}$$

\_\_\_\_\_

$$\begin{array}{r} 908 \\ \times 47 \\ \hline \end{array}$$

\_\_\_\_\_

$$\begin{array}{r} 905 \\ \times 80 \\ \hline \end{array}$$

\_\_\_\_\_

$$\begin{array}{r} 394 \\ \times 71 \\ \hline \end{array}$$

\_\_\_\_\_

$$\begin{array}{r} 977 \\ \times 45 \\ \hline \end{array}$$

\_\_\_\_\_

$$\begin{array}{r} 256 \\ \times 32 \\ \hline \end{array}$$

\_\_\_\_\_

$$\begin{array}{r} 989 \\ \times 55 \\ \hline \end{array}$$

\_\_\_\_\_

$$\begin{array}{r} 284 \\ \times 81 \\ \hline \end{array}$$

\_\_\_\_\_

$$\begin{array}{r} 183 \\ \times 38 \\ \hline \end{array}$$

\_\_\_\_\_

$$\begin{array}{r} 592 \\ \times 78 \\ \hline \end{array}$$

\_\_\_\_\_

$$\begin{array}{r} 501 \\ \times 36 \\ \hline \end{array}$$

\_\_\_\_\_

$$\begin{array}{r} 428 \\ \times 57 \\ \hline \end{array}$$

\_\_\_\_\_

$$\begin{array}{r} 640 \\ \times 54 \\ \hline \end{array}$$

\_\_\_\_\_

$$\begin{array}{r} 788 \\ \times 49 \\ \hline \end{array}$$

\_\_\_\_\_

$$\begin{array}{r} 205 \\ \times 15 \\ \hline \end{array}$$

\_\_\_\_\_

$$\begin{array}{r} 422 \\ \times 97 \\ \hline \end{array}$$

\_\_\_\_\_

$$\begin{array}{r} 169 \\ \times 48 \\ \hline \end{array}$$

\_\_\_\_\_

$$\begin{array}{r} 891 \\ \times 87 \\ \hline \end{array}$$

\_\_\_\_\_