



Warm up Grade 6

Date: Nov 19



1) Multiply (show work)

a)
$$\begin{array}{r} 58 \\ \times 72 \\ \hline 116 \\ + 4060 \\ \hline 4176 \end{array}$$

b)
$$\begin{array}{r} 367 \\ \times 61 \\ \hline 367 \\ + 22020 \\ \hline 22387 \end{array}$$

c)
$$\begin{array}{r} 421 \\ \times 7 \\ \hline 2947 \end{array}$$

d)
$$\begin{array}{r} 21 \\ \times 34 \\ \hline 84 \\ + 630 \\ \hline 714 \end{array}$$

2) Use long division (show work)

$1789 \div 2$

DMSB

$$\begin{array}{r} 894 \text{ R1} \\ 2 \overline{) 1789} \\ \underline{-16} \\ 18 \\ \underline{-18} \\ 09 \\ \underline{-8} \\ 1 \end{array}$$

b) $763 \div 4$

$$\begin{array}{r} 190 \text{ R3} \\ 4 \overline{) 763} \\ \underline{-4} \\ 36 \\ \underline{-36} \\ 03 \\ \underline{-0} \\ 3 \text{ R} \end{array}$$

Worksheet 2 digit or more multiplication

Show work with long multiplication

$$\begin{array}{r} 1) \overset{\cdot}{6}7 \\ \times 24 \\ \hline 268 \\ + 1340 \\ \hline 1608 \end{array}$$

$$\begin{array}{r} 2) 29 \\ \times 31 \\ \hline 29 \\ + 870 \\ \hline 899 \end{array}$$

$$\begin{array}{r} 3) 78 \\ \times 42 \\ \hline 156 \\ + 3120 \\ \hline 3276 \end{array}$$

$$\begin{array}{r} 4) 85 \\ \times 75 \\ \hline 425 \\ + 5950 \\ \hline 6375 \end{array}$$

$$\begin{array}{r} 5) \overset{\cdot}{2}23 \\ \times 18 \\ \hline 184 \\ + 230 \\ \hline 414 \end{array}$$

$$\begin{array}{r} 6) \overset{\cdot}{1}2 \\ \times 56 \\ \hline 72 \\ + 600 \\ \hline 672 \end{array}$$

$$\begin{array}{r} 7) \overset{\cdot}{2}85 \\ \times 18 \\ \hline 2280 \\ + 2850 \\ \hline 5130 \end{array}$$

$$\begin{array}{r} 8) \overset{\cdot}{1}29 \\ \times 64 \\ \hline 516 \\ + 7740 \\ \hline 8256 \end{array}$$

Calculate product with area model (area model)

9) 92×48

40	90	2
	90 × 40 = 3600	2 × 40 = 80
8	8 × 90 = 720	8 × 2 = 16

$$\begin{array}{r} 3600 \\ 720 \\ 80 \\ + 16 \\ \hline 4416 \end{array}$$

$92 \times 48 = 4416$

10) 27×86

80	20	7
	80 × 20 = 1600	7 × 80 = 560
6	6 × 20 = 120	6 × 7 = 42

$$\begin{array}{r} 1600 \\ 560 \\ + 120 \\ + 42 \\ \hline 2322 \end{array}$$

$27 \times 86 = 2322$

11) 345×62

	300	40	5
60	800 × 60 = 18000	60 × 40 = 2400	5 × 60 = 300
2	2 × 300 = 600	2 × 40 = 80	2 × 5 = 10

$$\begin{array}{r} 18000 \\ 2400 \\ 300 \\ 600 \\ 80 \\ 10 \\ + 10 \\ \hline 21390 \end{array}$$

Worksheet 2 Continues Quotient

Show work with long division (Show any remainders)

① $458 \div 7$

$$\begin{array}{r} 7 \overline{) 458} \\ \underline{-42} \\ 38 \\ \underline{-35} \\ 3 \text{ R} \end{array}$$

2) $240 \div 9$

$$\begin{array}{r} 9 \overline{) 240} \\ \underline{-18} \\ 60 \\ \underline{-56} \\ 4 \text{ R} \end{array}$$

3) $187 \div 2$

$$\begin{array}{r} 2 \overline{) 187} \\ \underline{-18} \\ 07 \\ \underline{-6} \\ 1 \text{ R} \end{array}$$

4) $936 \div 5$

$$\begin{array}{r} 5 \overline{) 936} \\ \underline{-5} \\ 43 \\ \underline{-40} \\ 36 \\ \underline{-35} \\ 1 \text{ R} \end{array}$$

5) $3904 \div 4$

$$\begin{array}{r} 4 \overline{) 3904} \\ \underline{-36} \\ 30 \\ \underline{-28} \\ 24 \\ \underline{-24} \\ 0 \end{array}$$

Worksheet 3 digit or more multiplication

Show work with long multiplication

$$\begin{array}{r} 1) \ 26 \\ \times 34 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \ 92 \\ \times 40 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \ 84 \\ \times 62 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \ 90 \\ \times 69 \\ \hline \end{array}$$

$$\begin{array}{r} 5) \ 75 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} 6) \ 14 \\ \times 97 \\ \hline \end{array}$$

$$\begin{array}{r} 7) \ 123 \\ \times 19 \\ \hline \end{array}$$

$$\begin{array}{r} 8) \ 804 \\ \times 53 \\ \hline \end{array}$$

Calculate product with area model (area model)

9) 127×17

10) 63×57

11) 261×48

Worksheet 3 Continues Quotient

Show work with long division (Show any remainders)

1) $921 \div 3$

2) $541 \div 5$

3) $1024 \div 6$

4) $846 \div 7$

Practice

1. Estimate each product or quotient. Which strategies did you use?

Tell if your estimate is an overestimate or an underestimate.

a) 7.01×9

b) 3.8×7

c) 11.85×5

d) 19.925×4

e) $9.8 \div 5$

f) $12.31 \div 2$

g) $56.093 \div 7$

h) $225.3 \div 5$

2. Waldo paid \$29.85 for 3 admission tickets to the Calgary Tower.

Estimate the cost of one admission ticket.

3. A pair of ice cleats for ice fishing costs \$14.89.

About how much will 6 pairs of ice cleats cost?

How did you find out?

4. Estimate the perimeter of each square.

Tell if your estimate is an overestimate or an underestimate.

How do you know?



5. Estimate the side length of a square with perimeter:

- a) 24.2 cm b) 29.8 cm c) 35.6 cm

6. a) Is 9.47×5 greater than, or less than, 45?

How can you estimate to find out?

b) Is $23.86 \div 4$ greater than, or less than, 6?

How can you estimate to find out?

Show your work.

7. Copy and complete. Write $>$, $<$, or $=$.

How did you decide which symbol to use?

- a) 5.6×2 1.4×4 b) $4.8 \div 2$ $15.5 \div 5$