

9. VERTICALLY AND CROSSWISE

Practice 1 slide 2

$$1) \begin{array}{r} 2 \ 1 \\ \underline{3 \ 1} \times \end{array}$$

$$2) \begin{array}{r} 2 \ 2 \\ \underline{1 \ 3} \times \end{array}$$

$$3) \begin{array}{r} 3 \ 2 \\ \underline{2 \ 1} \times \end{array}$$

Practice 2 slide 2

$$1) \begin{array}{r} 2 \ 4 \\ \underline{3 \ 1} \times \end{array}$$

$$2) \begin{array}{r} 4 \ 3 \\ \underline{2 \ 3} \times \end{array}$$

$$3) \begin{array}{r} 5 \ 4 \\ \underline{2 \ 3} \times \end{array}$$

$$4) \begin{array}{r} 2 \ 8 \\ \underline{4 \ 3} \times \end{array}$$

$$5) \begin{array}{r} 6 \ 7 \\ \underline{7 \ 3} \times \end{array}$$

$$6) \begin{array}{r} 1 \ 9 \\ \underline{2 \ 7} \times \end{array}$$

Practice 3 slide 3

$$1) \begin{array}{r} 3 \ 4 \\ \underline{3 \ 7} \times \end{array}$$

$$2) \begin{array}{r} 5 \ 3 \\ \underline{4 \ 2} \times \end{array}$$

$$3) \begin{array}{r} 6 \ 4 \\ \underline{3 \ 4} \times \end{array}$$

$$4) \begin{array}{r} 3 \ 5 \\ \underline{4 \ 7} \times \end{array}$$

$$5) \begin{array}{r} 8 \ 6 \\ \underline{4 \ 2} \times \end{array}$$

$$6) \begin{array}{r} 9 \ 1 \\ \underline{9 \ 2} \times \end{array}$$

Practice 4 slide 6 Divide:

$$1) \begin{array}{r} 2 \ 1 \\ \underline{4 \ 6 \ 2} \times \end{array}$$

$$2) \begin{array}{r} 4 \ 1 \\ \underline{1 \ 7 \ 2 \ 2} \times \end{array}$$

$$3) \begin{array}{r} 3 \ 3 \\ \underline{1 \ 1 \ 8 \ 8} \times \end{array}$$

$$4) \begin{array}{r} 7 \ 4 \\ \underline{5 \ 3 \ 2 \ 8} \times \end{array}$$

$$5) \begin{array}{r} 8 \ 2 \\ \underline{2 \ 2 \ 9 \ 6} \times \end{array}$$

$$6) \begin{array}{r} 5 \ 6 \\ \underline{2 \ 9 \ 7 \ 0} \times \end{array}$$

Practice 5 slide 8 Multiply:

$$1) \quad \begin{array}{r} 5x + 1 \\ \underline{3x + 4} \times \end{array}$$

$$2) \quad \begin{array}{r} x + 7 \\ \underline{x + 6} \times \end{array}$$

$$3) \quad \begin{array}{r} 6x - 5 \\ \underline{3x + 4} \times \end{array}$$

$$4) \quad \begin{array}{r} 4x - 3 \\ \underline{2x - 7} \times \end{array}$$

Practice 6 slide 9 Divide:

$$1) \quad \begin{array}{r} \underline{\hspace{1cm} 5x + 6} \times \\ 10x^2 + 17x + 6 \end{array}$$

$$2) \quad \begin{array}{r} \underline{\hspace{1cm} 3x + 2} \times \\ 21x^2 + 38x + 16 \end{array}$$

$$3) \quad \begin{array}{r} \underline{\hspace{1cm} x + 7} \times \\ 6x^2 + 44x + 14 \end{array}$$

$$4) \quad \begin{array}{r} \underline{\hspace{1cm} 3x + 4} \times \\ 6x^2 + 17x + 17 \end{array}$$

Practice 7 slides 10, 11 Find the area of these rectangles:

1) 2 ft 3 in by 2 ft 5 in

2) 4 ft 3 in by 5 ft 6 in

Practice 8 slide 12 Add/subtract:

$$1) \quad \frac{3}{4} + \frac{1}{9} =$$

$$2) \quad \frac{1}{2} + \frac{2}{5} =$$

$$3) \quad \frac{3}{5} - \frac{1}{4} =$$

$$4) \quad \frac{4}{7} - \frac{2}{11} =$$

$$5) \quad \frac{1}{2} - \frac{1}{3} =$$

$$6) \quad \frac{3}{4} + \frac{5}{6} =$$

Practice 9 slide 13 Add/subtract:

1) $\frac{3}{8} + \frac{1}{6} =$

2) $\frac{5}{12} + \frac{5}{8} =$

3) $\frac{7}{10} + \frac{4}{15} =$

4) $\frac{13}{14} - \frac{5}{6} =$

Practice 10 slide 14 Add/subtract:

1) $\frac{2}{5} + \frac{1}{4} + \frac{1}{7} =$

2) $\frac{1}{5} - \frac{2}{3} + \frac{1}{2} =$

Practice 11 slide 15 Which is greater/greatest?

1) $\frac{5}{6}$ or $\frac{4}{5}$

2) $\frac{2}{9}$ or $\frac{4}{17}$

3) $\frac{4}{5}$, $\frac{7}{8}$, $\frac{6}{7}$

Practice 12 slide 17 Multiply using vertical/crosswise/crosswise:

1) 113×23

2) 123×201

3) 224×32

Practice 13 slide 18 Multiply 2 figures at a time:

1) 112×207

2) 1113×302

3) 1201×2012

Practice 14 slide 19 Multiply using bar numbers:

1) 29×34

2) 49×58

3) 28×42

Practice 15 slide 20 Multiply (moving multiplier):

$$\begin{array}{r} 1) 232 \\ \underline{31} x \end{array}$$

$$\begin{array}{r} 2) 413 \\ \underline{23} x \end{array}$$

$$\begin{array}{r} 3) 524 \\ \underline{42} x \end{array}$$

Practice 16 slide 21 Multiply (moving multiplier):

$$\begin{array}{r} 1) 2312 \\ \underline{31} x \end{array}$$

$$\begin{array}{r} 2) 1352 \\ \underline{23} x \end{array}$$

$$\begin{array}{r} 3) 4035 \\ \underline{42} x \end{array}$$

Practice 17 slide 22 Multiply by Vertically and Crosswise:

$$\begin{array}{r} 1) 321 \\ \underline{321} x \end{array}$$

$$\begin{array}{r} 2) 512 \\ \underline{232} x \end{array}$$

$$\begin{array}{r} 3) 162 \\ \underline{432} x \end{array}$$

$$\begin{array}{r} 4) 3214 \\ \underline{3215} x \end{array}$$

$$\begin{array}{r} 5) 1312 \\ \underline{3232} x \end{array}$$

$$\begin{array}{r} 6) 4343 \\ \underline{3534} x \end{array}$$