



Multi-Digit Addition—Skills Practice

Name: _____

Add within 1,000,000.

Form A

- | | | | |
|--|---|---|---|
| 1 $\begin{array}{r} 4,699 \\ + 209 \\ \hline 4,908 \end{array}$ | 2 $\begin{array}{r} 733,633 \\ + 5,678 \\ \hline 739,311 \end{array}$ | 3 $\begin{array}{r} 5,050 \\ + 5,049 \\ \hline 10,099 \end{array}$ | 4 $\begin{array}{r} 35,009 \\ + 21,991 \\ \hline 57,000 \end{array}$ |
| 5 $\begin{array}{r} 123,321 \\ + 987 \\ \hline 124,308 \end{array}$ | 6 $\begin{array}{r} 806,515 \\ + 14,372 \\ \hline 820,887 \end{array}$ | 7 $\begin{array}{r} 97,342 \\ + 728 \\ \hline 98,070 \end{array}$ | 8 $\begin{array}{r} 150,225 \\ + 145,225 \\ \hline 295,450 \end{array}$ |
| 9 $\begin{array}{r} 28,403 \\ + 26,910 \\ \hline 55,313 \end{array}$ | 10 $\begin{array}{r} 5,146 \\ + 5,915 \\ \hline 11,061 \end{array}$ | 11 $\begin{array}{r} 915,412 \\ + 15,412 \\ \hline 930,824 \end{array}$ | 12 $\begin{array}{r} 42,963 \\ + 8,825 \\ \hline 51,788 \end{array}$ |
| 13 $\begin{array}{r} 188,888 \\ + 222,222 \\ \hline 411,110 \end{array}$ | 14 $\begin{array}{r} 670,780 \\ + 9,564 \\ \hline 680,344 \end{array}$ | 15 $\begin{array}{r} 16,275 \\ + 36,334 \\ \hline 52,609 \end{array}$ | 16 $\begin{array}{r} 7,741 \\ + 2,260 \\ \hline 10,001 \end{array}$ |
| 17 $\begin{array}{r} 10,864 \\ + 864 \\ \hline 11,728 \end{array}$ | 18 $\begin{array}{r} 642,002 \\ + 80,999 \\ \hline 723,001 \end{array}$ | 19 $\begin{array}{r} 22,987 \\ + 44,789 \\ \hline 67,776 \end{array}$ | 20 $\begin{array}{r} 47,247 \\ + 8,747 \\ \hline 55,994 \end{array}$ |

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Fluency Practice

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Multi-Digit Addition—Skills Practice

Name: _____

Add within 1,000,000.

Form B

- | | | | |
|--|---|---|---|
| 1 $\begin{array}{r} 3,597 \\ + 307 \\ \hline 3,904 \end{array}$ | 2 $\begin{array}{r} 644,544 \\ + 4,567 \\ \hline 649,111 \end{array}$ | 3 $\begin{array}{r} 2,020 \\ + 8,019 \\ \hline 10,039 \end{array}$ | 4 $\begin{array}{r} 42,991 \\ + 12,009 \\ \hline 55,000 \end{array}$ |
| 5 $\begin{array}{r} 234,432 \\ + 876 \\ \hline 235,308 \end{array}$ | 6 $\begin{array}{r} 705,626 \\ + 25,261 \\ \hline 730,887 \end{array}$ | 7 $\begin{array}{r} 64,751 \\ + 429 \\ \hline 65,180 \end{array}$ | 8 $\begin{array}{r} 205,336 \\ + 204,336 \\ \hline 409,672 \end{array}$ |
| 9 $\begin{array}{r} 17,210 \\ + 15,801 \\ \hline 33,011 \end{array}$ | 10 $\begin{array}{r} 8,924 \\ + 8,157 \\ \hline 17,081 \end{array}$ | 11 $\begin{array}{r} 749,241 \\ + 15,412 \\ \hline 764,653 \end{array}$ | 12 $\begin{array}{r} 53,854 \\ + 9,945 \\ \hline 63,799 \end{array}$ |
| 13 $\begin{array}{r} 133,333 \\ + 777,777 \\ \hline 911,110 \end{array}$ | 14 $\begin{array}{r} 908,847 \\ + 1,780 \\ \hline 910,627 \end{array}$ | 15 $\begin{array}{r} 28,764 \\ + 18,145 \\ \hline 46,909 \end{array}$ | 16 $\begin{array}{r} 6,632 \\ + 3,370 \\ \hline 10,002 \end{array}$ |
| 17 $\begin{array}{r} 22,552 \\ + 552 \\ \hline 23,104 \end{array}$ | 18 $\begin{array}{r} 430,999 \\ + 70,004 \\ \hline 501,003 \end{array}$ | 19 $\begin{array}{r} 33,678 \\ + 11,876 \\ \hline 45,554 \end{array}$ | 20 $\begin{array}{r} 76,356 \\ + 7,626 \\ \hline 83,982 \end{array}$ |

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Multi-Digit Subtraction—Skills Practice

Name: _____

Subtract within 1,000,000.

Form A

- | | | | |
|--|--|--|--|
| 1 $\begin{array}{r} 11,223 \\ - 311 \\ \hline 10,912 \end{array}$ | 2 $\begin{array}{r} 2,123 \\ - 1,321 \\ \hline 802 \end{array}$ | 3 $\begin{array}{r} 432,765 \\ - 43,276 \\ \hline 389,489 \end{array}$ | 4 $\begin{array}{r} 80,449 \\ - 24,085 \\ \hline 56,364 \end{array}$ |
| 5 $\begin{array}{r} 184,234 \\ - 93,517 \\ \hline 90,717 \end{array}$ | 6 $\begin{array}{r} 319,019 \\ - 9,416 \\ \hline 309,603 \end{array}$ | 7 $\begin{array}{r} 62,626 \\ - 6,262 \\ \hline 56,364 \end{array}$ | 8 $\begin{array}{r} 37,740 \\ - 18,870 \\ \hline 18,870 \end{array}$ |
| 9 $\begin{array}{r} 7,347 \\ - 5,182 \\ \hline 2,165 \end{array}$ | 10 $\begin{array}{r} 956,201 \\ - 524,110 \\ \hline 432,091 \end{array}$ | 11 $\begin{array}{r} 476,747 \\ - 9,696 \\ \hline 467,051 \end{array}$ | 12 $\begin{array}{r} 535 \\ - 353 \\ \hline 182 \end{array}$ |
| 13 $\begin{array}{r} 90,000 \\ - 1,234 \\ \hline 88,766 \end{array}$ | 14 $\begin{array}{r} 37,665 \\ - 776 \\ \hline 36,889 \end{array}$ | 15 $\begin{array}{r} 215,451 \\ - 8,795 \\ \hline 206,656 \end{array}$ | 16 $\begin{array}{r} 52,252 \\ - 50,992 \\ \hline 1,260 \end{array}$ |
| 17 $\begin{array}{r} 602,602 \\ - 444,444 \\ \hline 158,158 \end{array}$ | 18 $\begin{array}{r} 5,702 \\ - 2,915 \\ \hline 2,787 \end{array}$ | 19 $\begin{array}{r} 877,007 \\ - 525 \\ \hline 876,482 \end{array}$ | 20 $\begin{array}{r} 13,579 \\ - 2,846 \\ \hline 10,733 \end{array}$ |

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Fluency Practice

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Multi-Digit Subtraction—Skills Practice

Name: _____

Subtract within 1,000,000.

Form B

- | | | | |
|--|--|--|--|
| 1 $\begin{array}{r} 13,445 \\ - 522 \\ \hline 12,923 \end{array}$ | 2 $\begin{array}{r} 8,789 \\ - 7,987 \\ \hline 802 \end{array}$ | 3 $\begin{array}{r} 654,631 \\ - 65,432 \\ \hline 589,199 \end{array}$ | 4 $\begin{array}{r} 70,338 \\ - 13,074 \\ \hline 57,264 \end{array}$ |
| 5 $\begin{array}{r} 162,478 \\ - 81,759 \\ \hline 80,719 \end{array}$ | 6 $\begin{array}{r} 518,018 \\ - 8,515 \\ \hline 509,503 \end{array}$ | 7 $\begin{array}{r} 71,717 \\ - 7,171 \\ \hline 64,546 \end{array}$ | 8 $\begin{array}{r} 51,120 \\ - 25,560 \\ \hline 25,560 \end{array}$ |
| 9 $\begin{array}{r} 6,536 \\ - 5,372 \\ \hline 1,164 \end{array}$ | 10 $\begin{array}{r} 833,021 \\ - 312,110 \\ \hline 520,911 \end{array}$ | 11 $\begin{array}{r} 596,454 \\ - 9,393 \\ \hline 587,061 \end{array}$ | 12 $\begin{array}{r} 626 \\ - 262 \\ \hline 364 \end{array}$ |
| 13 $\begin{array}{r} 70,000 \\ - 2,345 \\ \hline 67,655 \end{array}$ | 14 $\begin{array}{r} 28,776 \\ - 887 \\ \hline 27,889 \end{array}$ | 15 $\begin{array}{r} 437,673 \\ - 9,895 \\ \hline 427,778 \end{array}$ | 16 $\begin{array}{r} 32,131 \\ - 30,881 \\ \hline 1,250 \end{array}$ |
| 17 $\begin{array}{r} 501,501 \\ - 333,333 \\ \hline 168,168 \end{array}$ | 18 $\begin{array}{r} 6,803 \\ - 4,806 \\ \hline 1,997 \end{array}$ | 19 $\begin{array}{r} 966,006 \\ - 414 \\ \hline 965,592 \end{array}$ | 20 $\begin{array}{r} 14,568 \\ - 3,725 \\ \hline 10,843 \end{array}$ |

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Fluency Practice

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Multi-Digit Multiplication—Skills Practice

Name: _____

Multiply.

Form A

$$\begin{array}{r} 1 \quad 205 \\ \times 33 \\ \hline 6,765 \end{array}$$

$$\begin{array}{r} 2 \quad 6,660 \\ \times 70 \\ \hline 466,200 \end{array}$$

$$\begin{array}{r} 3 \quad 378 \\ \times 12 \\ \hline 4,536 \end{array}$$

$$\begin{array}{r} 4 \quad 1,221 \\ \times 91 \\ \hline 111,111 \end{array}$$

$$\begin{array}{r} 5 \quad 5,062 \\ \times 25 \\ \hline 126,550 \end{array}$$

$$\begin{array}{r} 6 \quad 829 \\ \times 62 \\ \hline 51,398 \end{array}$$

$$\begin{array}{r} 7 \quad 116 \\ \times 46 \\ \hline 5,336 \end{array}$$

$$\begin{array}{r} 8 \quad 7,256 \\ \times 56 \\ \hline 406,336 \end{array}$$

$$\begin{array}{r} 9 \quad 444 \\ \times 99 \\ \hline 43,956 \end{array}$$

$$\begin{array}{r} 10 \quad 3,136 \\ \times 14 \\ \hline 43,904 \end{array}$$

$$\begin{array}{r} 11 \quad 2,222 \\ \times 55 \\ \hline 122,210 \end{array}$$

$$\begin{array}{r} 12 \quad 761 \\ \times 80 \\ \hline 60,880 \end{array}$$

$$\begin{array}{r} 13 \quad 530 \\ \times 28 \\ \hline 14,840 \end{array}$$

$$\begin{array}{r} 14 \quad 142 \\ \times 222 \\ \hline 31,524 \end{array}$$

$$\begin{array}{r} 15 \quad 875 \\ \times 305 \\ \hline 266,875 \end{array}$$

$$\begin{array}{r} 16 \quad 250 \\ \times 250 \\ \hline 62,500 \end{array}$$

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Multi-Digit Multiplication—Skills Practice

Name: _____

Multiply.

Form B

$$\begin{array}{r} 1 \quad 305 \\ \times 22 \\ \hline 6,710 \end{array}$$

$$\begin{array}{r} 2 \quad 7,770 \\ \times 60 \\ \hline 466,200 \end{array}$$

$$\begin{array}{r} 3 \quad 178 \\ \times 32 \\ \hline 5,696 \end{array}$$

$$\begin{array}{r} 4 \quad 2,332 \\ \times 91 \\ \hline 212,212 \end{array}$$

$$\begin{array}{r} 5 \quad 6,052 \\ \times 25 \\ \hline 151,300 \end{array}$$

$$\begin{array}{r} 6 \quad 629 \\ \times 82 \\ \hline 51,578 \end{array}$$

$$\begin{array}{r} 7 \quad 114 \\ \times 44 \\ \hline 5,016 \end{array}$$

$$\begin{array}{r} 8 \quad 5,256 \\ \times 76 \\ \hline 399,456 \end{array}$$

$$\begin{array}{r} 9 \quad 555 \\ \times 99 \\ \hline 54,945 \end{array}$$

$$\begin{array}{r} 10 \quad 1,136 \\ \times 34 \\ \hline 38,624 \end{array}$$

$$\begin{array}{r} 11 \quad 4,444 \\ \times 55 \\ \hline 244,420 \end{array}$$

$$\begin{array}{r} 12 \quad 861 \\ \times 70 \\ \hline 60,270 \end{array}$$

$$\begin{array}{r} 13 \quad 230 \\ \times 58 \\ \hline 13,340 \end{array}$$

$$\begin{array}{r} 14 \quad 142 \\ \times 111 \\ \hline 15,762 \end{array}$$

$$\begin{array}{r} 15 \quad 375 \\ \times 805 \\ \hline 301,875 \end{array}$$

$$\begin{array}{r} 16 \quad 125 \\ \times 125 \\ \hline 15,625 \end{array}$$

Fluency Practice

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Multi-Digit Division—Skills Practice

Name: _____

Divide 3- and 4-digit dividends with mental math on some steps.

Form A

$$\begin{array}{r} 1 \quad 36 \\ 11 \overline{)396} \end{array}$$

$$\begin{array}{r} 2 \quad 302 \\ 20 \overline{)6,040} \end{array}$$

$$\begin{array}{r} 3 \quad 13 \\ 50 \overline{)650} \end{array}$$

$$\begin{array}{r} 4 \quad 75 \\ 21 \overline{)1,575} \end{array}$$

$$\begin{array}{r} 5 \quad 43 \\ 25 \overline{)1,075} \end{array}$$

$$\begin{array}{r} 6 \quad 19 \\ 40 \overline{)760} \end{array}$$

$$\begin{array}{r} 7 \quad 23 \\ 70 \overline{)1,610} \end{array}$$

$$\begin{array}{r} 8 \quad 44 \\ 22 \overline{)968} \end{array}$$

$$\begin{array}{r} 9 \quad 244 \\ 12 \overline{)2,928} \end{array}$$

$$\begin{array}{r} 10 \quad 31 \\ 31 \overline{)961} \end{array}$$

$$\begin{array}{r} 11 \quad 26 \\ 20 \overline{)520} \end{array}$$

$$\begin{array}{r} 12 \quad 112 \\ 30 \overline{)3,360} \end{array}$$

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Fluency Practice

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Multi-Digit Division—Skills Practice

Name: _____

Divide 3- and 4-digit dividends with mental math on some steps.

Form B

$$\begin{array}{r} 1 \quad 26 \\ 11 \overline{)286} \end{array}$$

$$\begin{array}{r} 2 \quad 405 \\ 20 \overline{)8,100} \end{array}$$

$$\begin{array}{r} 3 \quad 17 \\ 50 \overline{)850} \end{array}$$

$$\begin{array}{r} 4 \quad 55 \\ 21 \overline{)1,155} \end{array}$$

$$\begin{array}{r} 5 \quad 46 \\ 25 \overline{)1,150} \end{array}$$

$$\begin{array}{r} 6 \quad 14 \\ 40 \overline{)560} \end{array}$$

$$\begin{array}{r} 7 \quad 23 \\ 60 \overline{)1,380} \end{array}$$

$$\begin{array}{r} 8 \quad 36 \\ 22 \overline{)792} \end{array}$$

$$\begin{array}{r} 9 \quad 122 \\ 12 \overline{)1,464} \end{array}$$

$$\begin{array}{r} 10 \quad 32 \\ 31 \overline{)992} \end{array}$$

$$\begin{array}{r} 11 \quad 27 \\ 20 \overline{)540} \end{array}$$

$$\begin{array}{r} 12 \quad 211 \\ 30 \overline{)6,330} \end{array}$$

Fluency Practice

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Multi-Digit Division—Skills Practice

Name: _____

Divide 3-, 4-, and 5-digit dividends with mental math on some steps.

Form A

- | | | | |
|-------------------------------------|--|--------------------------------------|--|
| 1
$50 \overline{)950}$
19 | 2
$20 \overline{)8,100}$
405 | 3
$21 \overline{)672}$
32 | 4
$31 \overline{)2,294}$
74 |
| 5
$22 \overline{)1,782}$
81 | 6
$11 \overline{)605}$
55 | 7
$30 \overline{)780}$
26 | 8
$25 \overline{)5,575}$
223 |
| 9
$25 \overline{)10,625}$
425 | 10
$50 \overline{)71,600}$
1,432 | 11
$50 \overline{)26,600}$
532 | 12
$20 \overline{)66,660}$
3,333 |

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Fluency Practice

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Multi-Digit Division—Skills Practice

Name: _____

Divide 3-, 4-, and 5-digit dividends with mental math on some steps.

Form B

- | | | | |
|-------------------------------------|--|--------------------------------------|--|
| 1
$50 \overline{)850}$
17 | 2
$20 \overline{)6,100}$
305 | 3
$21 \overline{)462}$
22 | 4
$31 \overline{)1,674}$
54 |
| 5
$22 \overline{)2,002}$
91 | 6
$11 \overline{)715}$
65 | 7
$30 \overline{)720}$
24 | 8
$25 \overline{)8,350}$
334 |
| 9
$25 \overline{)11,250}$
450 | 10
$50 \overline{)61,700}$
1,234 | 11
$50 \overline{)26,150}$
523 | 12
$20 \overline{)44,440}$
2,222 |

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Fluency Practice

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Multi-Digit Division—Skills Practice

Name: _____

Divide 3-, 4-, and 5-digit dividends.

Form A

- | | | | |
|---------------------------------------|--------------------------------------|--------------------------------------|--|
| 1
$72 \overline{)648}$
9 | 2
$30 \overline{)2,880}$
96 | 3
$58 \overline{)5,974}$
103 | 4
$18 \overline{)828}$
46 |
| 5
$23 \overline{)759}$
33 | 6
$40 \overline{)960}$
24 | 7
$86 \overline{)4,472}$
52 | 8
$12 \overline{)7,632}$
636 |
| 9
$22 \overline{)40,766}$
1,853 | 10
$15 \overline{)10,875}$
725 | 11
$64 \overline{)23,296}$
364 | 12
$20 \overline{)91,340}$
4,567 |

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Fluency Practice

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Multi-Digit Division—Skills Practice

Name: _____

Divide 3-, 4-, and 5-digit dividends.

Form B

- | | | | |
|---------------------------------------|--------------------------------------|--------------------------------------|--|
| 1
$74 \overline{)592}$
8 | 2
$30 \overline{)2,580}$
86 | 3
$56 \overline{)5,936}$
106 | 4
$16 \overline{)768}$
48 |
| 5
$33 \overline{)825}$
25 | 6
$60 \overline{)840}$
14 | 7
$88 \overline{)4,488}$
51 | 8
$12 \overline{)7,872}$
656 |
| 9
$42 \overline{)59,010}$
1,405 | 10
$15 \overline{)10,125}$
675 | 11
$62 \overline{)21,452}$
346 | 12
$20 \overline{)93,560}$
4,678 |

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Fluency Practice

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Multi-Digit Division—Repeated Reasoning

Name: _____

Find patterns with zeros.

Set A

1 $\begin{array}{r} 10 \\ 80 \overline{)800} \end{array}$

2 $\begin{array}{r} 100 \\ 80 \overline{)8,000} \end{array}$

3 $\begin{array}{r} 1,000 \\ 80 \overline{)80,000} \end{array}$

4 $\begin{array}{r} 20 \\ 40 \overline{)800} \end{array}$

5 $\begin{array}{r} 200 \\ 40 \overline{)8,000} \end{array}$

6 $\begin{array}{r} 2,000 \\ 40 \overline{)80,000} \end{array}$

7 $\begin{array}{r} 40 \\ 20 \overline{)800} \end{array}$

8 $\begin{array}{r} 400 \\ 20 \overline{)8,000} \end{array}$

9 $\begin{array}{r} 4,000 \\ 20 \overline{)80,000} \end{array}$

Set B

1 $\begin{array}{r} 40 \\ 200 \overline{)8,000} \end{array}$

2 $\begin{array}{r} 20 \\ 400 \overline{)8,000} \end{array}$

3 $\begin{array}{r} 10 \\ 800 \overline{)8,000} \end{array}$

4 $\begin{array}{r} 400 \\ 20 \overline{)8,000} \end{array}$

5 $\begin{array}{r} 200 \\ 40 \overline{)8,000} \end{array}$

6 $\begin{array}{r} 100 \\ 80 \overline{)8,000} \end{array}$

7 $\begin{array}{r} 4,000 \\ 2 \overline{)8,000} \end{array}$

8 $\begin{array}{r} 2,000 \\ 4 \overline{)8,000} \end{array}$

9 $\begin{array}{r} 1,000 \\ 8 \overline{)8,000} \end{array}$

Describe a pattern you see in one of the sets of problems above.

Answers will vary. Students may see in Set A when the divisor is halved, the quotient is doubled; or in Set B as the number of 0s in the divisor decreases by 1, the number of 0s in the quotient increases by 1.

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Fluency Practice

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Multi-Digit Division—Repeated Reasoning

Name: _____

Find patterns in dividing by 25 or 50.

Set A

1 $\begin{array}{r} 5 \\ 20 \overline{)100} \end{array}$

2 $\begin{array}{r} 4 \\ 25 \overline{)100} \end{array}$

3 $\begin{array}{r} 2 \\ 50 \overline{)100} \end{array}$

4 $\begin{array}{r} 10 \\ 20 \overline{)200} \end{array}$

5 $\begin{array}{r} 8 \\ 25 \overline{)200} \end{array}$

6 $\begin{array}{r} 4 \\ 50 \overline{)200} \end{array}$

7 $\begin{array}{r} 15 \\ 20 \overline{)300} \end{array}$

8 $\begin{array}{r} 12 \\ 25 \overline{)300} \end{array}$

9 $\begin{array}{r} 6 \\ 50 \overline{)300} \end{array}$

Set B

1 $\begin{array}{r} 55 \\ 20 \overline{)1,100} \end{array}$

2 $\begin{array}{r} 44 \\ 25 \overline{)1,100} \end{array}$

3 $\begin{array}{r} 22 \\ 50 \overline{)1,100} \end{array}$

4 $\begin{array}{r} 60 \\ 20 \overline{)1,200} \end{array}$

5 $\begin{array}{r} 48 \\ 25 \overline{)1,200} \end{array}$

6 $\begin{array}{r} 24 \\ 50 \overline{)1,200} \end{array}$

7 $\begin{array}{r} 65 \\ 20 \overline{)1,300} \end{array}$

8 $\begin{array}{r} 52 \\ 25 \overline{)1,300} \end{array}$

9 $\begin{array}{r} 26 \\ 50 \overline{)1,300} \end{array}$

Describe a pattern you see in one of the sets of problems above.

Answers will vary. Students may see when a multiple of 100 is divided by 20, the quotient is equal to 5 times the number of 100s. Or, the same pattern may be described as the quotient increases by 5 as the number of 100s increases by 1.

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Fluency Practice 365

Decimal Addition—Skills Practice

Name: _____

Add decimals through hundredths.

Form A

1 $0.8 + 0.4 = 1.2$

2 $0.33 + 0.66 = 0.99$

3 $68.14 + 0.51 = 68.65$

4 $0.05 + 0.5 = 0.55$

5 $200.02 + 100.1 = 300.12$

6 $4.7 + 1.3 = 6$

7 $7.6 + 7.12 = 14.72$

8 $1.26 + 2.21 = 3.47$

9 $80.39 + 80.01 = 160.4$

10 $\begin{array}{r} 54.17 \\ + 4.92 \\ \hline 59.09 \end{array}$

11 $\begin{array}{r} 1.91 \\ + 0.09 \\ \hline 2.00 \end{array}$

12 $\begin{array}{r} 108.52 \\ + 258.01 \\ \hline 366.53 \end{array}$

13 $\begin{array}{r} 55.22 \\ + 22.55 \\ \hline 77.77 \end{array}$

14 $\begin{array}{r} 375.1 \\ + 525.7 \\ \hline 900.8 \end{array}$

15 $\begin{array}{r} 0.6 \\ + 0.6 \\ \hline 1.2 \end{array}$

16 $\begin{array}{r} 0.75 \\ + 0.45 \\ \hline 1.20 \end{array}$

17 $\begin{array}{r} 9.24 \\ + 4.26 \\ \hline 13.50 \end{array}$

18 $\begin{array}{r} 6.34 \\ + 3.6 \\ \hline 9.94 \end{array}$

19 $\begin{array}{r} 549.99 \\ + 33.33 \\ \hline 583.32 \end{array}$

20 $\begin{array}{r} 4.84 \\ + 1.82 \\ \hline 6.66 \end{array}$

21 $\begin{array}{r} 48.4 \\ + 18.2 \\ \hline 66.6 \end{array}$

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Fluency Practice

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Decimal Addition—Skills Practice

Name: _____

Add decimals through hundredths.

Form B

1 $0.5 + 0.8 = 1.3$

2 $0.22 + 0.77 = 0.99$

3 $46.12 + 0.31 = 46.43$

4 $0.09 + 0.9 = 0.99$

5 $500.05 + 300.3 = 800.35$

6 $6.2 + 1.8 = 8$

7 $9.6 + 9.31 = 18.91$

8 $2.36 + 3.32 = 5.68$

9 $70.02 + 70.28 = 140.3$

10 $\begin{array}{r} 64.23 \\ + 4.86 \\ \hline 69.09 \end{array}$

11 $\begin{array}{r} 2.92 \\ + 0.08 \\ \hline 3.00 \end{array}$

12 $\begin{array}{r} 209.71 \\ + 389.02 \\ \hline 598.73 \end{array}$

13 $\begin{array}{r} 44.33 \\ + 33.44 \\ \hline 77.77 \end{array}$

14 $\begin{array}{r} 250.5 \\ + 550.2 \\ \hline 800.7 \end{array}$

15 $\begin{array}{r} 0.7 \\ + 0.7 \\ \hline 1.4 \end{array}$

16 $\begin{array}{r} 0.75 \\ + 0.65 \\ \hline 1.40 \end{array}$

17 $\begin{array}{r} 8.13 \\ + 4.17 \\ \hline 12.30 \end{array}$

18 $\begin{array}{r} 5.42 \\ + 4.5 \\ \hline 9.92 \end{array}$

19 $\begin{array}{r} 329.99 \\ + 22.22 \\ \hline 352.21 \end{array}$

20 $\begin{array}{r} 2.52 \\ + 1.92 \\ \hline 4.44 \end{array}$

21 $\begin{array}{r} 25.2 \\ + 19.2 \\ \hline 44.4 \end{array}$

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Fluency Practice 367



Decimal Addition—Repeated Reasoning

Name: _____

Find place value patterns.

Set A

- | | |
|------------------------------------|-------------------------------------|
| 1 $0.99 + 0.01 = \underline{1}$ | 2 $2.99 + 3.01 = \underline{6}$ |
| 3 $0.98 + 0.02 = \underline{1}$ | 4 $2.98 + 3.02 = \underline{6}$ |
| 5 $0.97 + 0.03 = \underline{1}$ | 6 $2.97 + 3.03 = \underline{6}$ |
| 7 $10.99 + 0.01 = \underline{11}$ | 8 $20.99 + 30.01 = \underline{51}$ |
| 9 $10.98 + 0.02 = \underline{11}$ | 10 $20.98 + 30.02 = \underline{51}$ |
| 11 $10.97 + 0.03 = \underline{11}$ | 12 $20.97 + 30.03 = \underline{51}$ |

Set B

- | | | |
|--|--|---|
| 1 $\begin{array}{r} 0.99 \\ + 0.01 \\ \hline 1.00 \end{array}$ | 2 $\begin{array}{r} 2.99 \\ + 3.01 \\ \hline 6.00 \end{array}$ | 3 $\begin{array}{r} 50.99 \\ + 40.01 \\ \hline 91.00 \end{array}$ |
| 4 $\begin{array}{r} 0.99 \\ + 0.02 \\ \hline 1.01 \end{array}$ | 5 $\begin{array}{r} 2.99 \\ + 3.02 \\ \hline 6.01 \end{array}$ | 6 $\begin{array}{r} 50.99 \\ + 40.02 \\ \hline 91.01 \end{array}$ |
| 7 $\begin{array}{r} 0.99 \\ + 0.03 \\ \hline 1.02 \end{array}$ | 8 $\begin{array}{r} 2.99 \\ + 3.03 \\ \hline 6.02 \end{array}$ | 9 $\begin{array}{r} 50.99 \\ + 40.03 \\ \hline 91.02 \end{array}$ |

Describe a pattern you see in one of the sets of problems above.

Answers will vary. Students may see the pairings of 99 hundredths and 1 hundredth, 98 hundredths and 2 hundredths, and 97 hundredths and 3 hundredths each increase the number of ones by 1.

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Fluency Practice

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Decimal Subtraction—Skills Practice

Name: _____

Subtract decimals through hundredths.

Form A

- | | | |
|--|--|---|
| 1 $25.25 - 0.11 = \underline{25.14}$ | 2 $0.4 - 0.04 = \underline{0.36}$ | 3 $200.4 - 100.04 = \underline{100.36}$ |
| 4 $0.7 - 0.5 = \underline{0.2}$ | 5 $70.18 - 10.09 = \underline{60.09}$ | 6 $9.5 - 9.05 = \underline{0.45}$ |
| 7 $3.42 - 1.32 = \underline{2.1}$ | 8 $0.88 - 0.33 = \underline{0.55}$ | 9 $1.25 - 0.75 = \underline{0.5}$ |
| 10 $\begin{array}{r} 1.42 \\ - 0.43 \\ \hline 0.99 \end{array}$ | 11 $\begin{array}{r} 1.6 \\ - 0.8 \\ \hline 0.8 \end{array}$ | 12 $\begin{array}{r} 352.52 \\ - 108.08 \\ \hline 244.44 \end{array}$ |
| 13 $\begin{array}{r} 4.36 \\ - 3.6 \\ \hline 0.76 \end{array}$ | 14 $\begin{array}{r} 725.7 \\ - 175.2 \\ \hline 550.5 \end{array}$ | 15 $\begin{array}{r} 9.36 \\ - 5.36 \\ \hline 4.00 \end{array}$ |
| 16 $\begin{array}{r} 99.88 \\ - 88.77 \\ \hline 11.11 \end{array}$ | 17 $\begin{array}{r} 99.88 \\ - 88.99 \\ \hline 10.89 \end{array}$ | 18 $\begin{array}{r} 59.1 \\ - 25.8 \\ \hline 33.3 \end{array}$ |
| 19 $\begin{array}{r} 5.91 \\ - 2.58 \\ \hline 3.33 \end{array}$ | 20 $\begin{array}{r} 802.11 \\ - 22.22 \\ \hline 779.89 \end{array}$ | 21 $\begin{array}{r} 65.62 \\ - 2.81 \\ \hline 62.81 \end{array}$ |

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Decimal Subtraction—Skills Practice

Name: _____

Subtract decimals through hundredths.

Form B

- | | | |
|--|--|---|
| 1 $92.92 - 0.11 = \underline{92.81}$ | 2 $0.5 - 0.05 = \underline{0.45}$ | 3 $400.5 - 200.05 = \underline{200.45}$ |
| 4 $0.8 - 0.2 = \underline{0.6}$ | 5 $50.14 - 10.07 = \underline{40.07}$ | 6 $3.2 - 3.02 = \underline{0.18}$ |
| 7 $4.46 - 2.26 = \underline{2.2}$ | 8 $0.66 - 0.22 = \underline{0.44}$ | 9 $1.25 - 0.5 = \underline{0.75}$ |
| 10 $\begin{array}{r} 1.61 \\ - 0.62 \\ \hline 0.99 \end{array}$ | 11 $\begin{array}{r} 2.4 \\ - 1.2 \\ \hline 1.2 \end{array}$ | 12 $\begin{array}{r} 591.91 \\ - 203.03 \\ \hline 388.88 \end{array}$ |
| 13 $\begin{array}{r} 6.58 \\ - 5.8 \\ \hline 0.78 \end{array}$ | 14 $\begin{array}{r} 955.9 \\ - 295.3 \\ \hline 660.6 \end{array}$ | 15 $\begin{array}{r} 4.72 \\ - 1.72 \\ \hline 3.00 \end{array}$ |
| 16 $\begin{array}{r} 77.66 \\ - 66.55 \\ \hline 11.11 \end{array}$ | 17 $\begin{array}{r} 77.66 \\ - 66.77 \\ \hline 10.89 \end{array}$ | 18 $\begin{array}{r} 89.1 \\ - 33.6 \\ \hline 55.5 \end{array}$ |
| 19 $\begin{array}{r} 8.91 \\ - 3.36 \\ \hline 5.55 \end{array}$ | 20 $\begin{array}{r} 603.22 \\ - 33.33 \\ \hline 569.89 \end{array}$ | 21 $\begin{array}{r} 43.48 \\ - 1.74 \\ \hline 41.74 \end{array}$ |

Decimal Subtraction—Repeated Reasoning

Name: _____

Find place value patterns.

Set A

- | | |
|------------------------------------|------------------------------------|
| 1 $1 - 0.01 = \underline{0.99}$ | 2 $1 - 0.02 = \underline{0.98}$ |
| 3 $2 - 1.01 = \underline{0.99}$ | 4 $2 - 1.02 = \underline{0.98}$ |
| 5 $3 - 2.01 = \underline{0.99}$ | 6 $3 - 2.02 = \underline{0.98}$ |
| 7 $11 - 10.01 = \underline{0.99}$ | 8 $11 - 10.02 = \underline{0.98}$ |
| 9 $12 - 11.01 = \underline{0.99}$ | 10 $12 - 11.02 = \underline{0.98}$ |
| 11 $13 - 12.01 = \underline{0.99}$ | 12 $13 - 12.02 = \underline{0.98}$ |

Set B

- | | | |
|---|---|---|
| 1 $\begin{array}{r} 1.1 \\ - 1.01 \\ \hline 0.09 \end{array}$ | 2 $\begin{array}{r} 51.1 \\ - 1.01 \\ \hline 50.09 \end{array}$ | 3 $\begin{array}{r} 101.1 \\ - 1.01 \\ \hline 100.09 \end{array}$ |
| 4 $\begin{array}{r} 2.1 \\ - 1.01 \\ \hline 1.09 \end{array}$ | 5 $\begin{array}{r} 52.1 \\ - 1.01 \\ \hline 51.09 \end{array}$ | 6 $\begin{array}{r} 102.1 \\ - 1.01 \\ \hline 101.09 \end{array}$ |
| 7 $\begin{array}{r} 3.1 \\ - 1.01 \\ \hline 2.09 \end{array}$ | 8 $\begin{array}{r} 53.1 \\ - 1.01 \\ \hline 52.09 \end{array}$ | 9 $\begin{array}{r} 103.1 \\ - 1.01 \\ \hline 102.09 \end{array}$ |

Describe a pattern you see in one of the sets of problems above.

Answers will vary. Students may see in Set B that subtracting 1.01 from a decimal ending with 1 tenth will result in a difference ending in 9 hundredths.

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Decimal Multiplication—Skills Practice

Name: _____

Multiply.

Form A

1 $3 \times 0.6 = \underline{1.8}$

2 $1.2 \times 1.2 = \underline{1.44}$

3 $0.5 \times 4 = \underline{2}$

4 $0.7 \times 0.2 = \underline{0.14}$

5 $7 \times 0.02 = \underline{0.14}$

6 $5.5 \times 0.1 = \underline{0.55}$

7 $25 \times 0.01 = \underline{0.25}$

8 $0.4 \times 0.08 = \underline{0.032}$

9 $0.09 \times 10 = \underline{0.9}$

10
$$\begin{array}{r} 3.7 \\ \times 0.4 \\ \hline 1.48 \end{array}$$

11
$$\begin{array}{r} 1.8 \\ \times 4 \\ \hline 7.2 \end{array}$$

12
$$\begin{array}{r} 6.12 \\ \times 0.5 \\ \hline 3.06 \end{array}$$

13
$$\begin{array}{r} 3.06 \\ \times 2 \\ \hline 6.12 \end{array}$$

14
$$\begin{array}{r} 0.31 \\ \times 0.6 \\ \hline 0.186 \end{array}$$

15
$$\begin{array}{r} 1.75 \\ \times 2.5 \\ \hline 4.375 \end{array}$$

16
$$\begin{array}{r} 0.11 \\ \times 14 \\ \hline 1.54 \end{array}$$

17
$$\begin{array}{r} 4.1 \\ \times 5.2 \\ \hline 21.32 \end{array}$$

18
$$\begin{array}{r} 3.33 \\ \times 2.2 \\ \hline 7.326 \end{array}$$

19
$$\begin{array}{r} 33.3 \\ \times 0.22 \\ \hline 7.326 \end{array}$$

20
$$\begin{array}{r} 0.5 \\ \times 15 \\ \hline 7.5 \end{array}$$

21
$$\begin{array}{r} 11.1 \\ \times 0.09 \\ \hline 0.999 \end{array}$$

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Decimal Multiplication—Skills Practice

Name: _____

Multiply.

Form B

1 $4 \times 0.4 = \underline{1.6}$

2 $1.1 \times 1.1 = \underline{1.21}$

3 $0.5 \times 6 = \underline{3}$

4 $0.6 \times 0.2 = \underline{0.12}$

5 $6 \times 0.02 = \underline{0.12}$

6 $8.8 \times 0.1 = \underline{0.88}$

7 $15 \times 0.01 = \underline{0.15}$

8 $0.9 \times 0.04 = \underline{0.036}$

9 $0.03 \times 10 = \underline{0.3}$

10
$$\begin{array}{r} 5.4 \\ \times 0.3 \\ \hline 1.62 \end{array}$$

11
$$\begin{array}{r} 1.3 \\ \times 5 \\ \hline 6.5 \end{array}$$

12
$$\begin{array}{r} 8.24 \\ \times 0.5 \\ \hline 4.12 \end{array}$$

13
$$\begin{array}{r} 4.12 \\ \times 2 \\ \hline 8.24 \end{array}$$

14
$$\begin{array}{r} 0.72 \\ \times 0.3 \\ \hline 0.216 \end{array}$$

15
$$\begin{array}{r} 1.25 \\ \times 7.5 \\ \hline 9.375 \end{array}$$

16
$$\begin{array}{r} 0.11 \\ \times 16 \\ \hline 1.76 \end{array}$$

17
$$\begin{array}{r} 6.2 \\ \times 5.1 \\ \hline 31.62 \end{array}$$

18
$$\begin{array}{r} 2.22 \\ \times 4.4 \\ \hline 9.768 \end{array}$$

19
$$\begin{array}{r} 22.2 \\ \times 0.44 \\ \hline 9.768 \end{array}$$

20
$$\begin{array}{r} 0.5 \\ \times 25 \\ \hline 12.5 \end{array}$$

21
$$\begin{array}{r} 11.1 \\ \times 0.08 \\ \hline 0.888 \end{array}$$

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Fluency Practice

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Decimal Multiplication—Repeated Reasoning

Name: _____

Find place value patterns.

Set A

1 $3 \times 0.1 = \underline{0.3}$

2 $3 \times 0.01 = \underline{0.03}$

3 $3 \times 0.2 = \underline{0.6}$

4 $3 \times 0.02 = \underline{0.06}$

5 $3 \times 0.3 = \underline{0.9}$

6 $3 \times 0.03 = \underline{0.09}$

7 $3 \times 0.4 = \underline{1.2}$

8 $3 \times 0.04 = \underline{0.12}$

9 $3 \times 0.5 = \underline{1.5}$

10 $3 \times 0.05 = \underline{0.15}$

Set B

1
$$\begin{array}{r} 4 \\ \times 0.2 \\ \hline 0.8 \end{array}$$

2
$$\begin{array}{r} 0.4 \\ \times 0.2 \\ \hline 0.08 \end{array}$$

3
$$\begin{array}{r} 0.04 \\ \times 0.2 \\ \hline 0.008 \end{array}$$

4
$$\begin{array}{r} 8 \\ \times 0.2 \\ \hline 1.6 \end{array}$$

5
$$\begin{array}{r} 0.8 \\ \times 0.2 \\ \hline 0.16 \end{array}$$

6
$$\begin{array}{r} 0.08 \\ \times 0.2 \\ \hline 0.016 \end{array}$$

7
$$\begin{array}{r} 12 \\ \times 0.2 \\ \hline 2.4 \end{array}$$

8
$$\begin{array}{r} 1.2 \\ \times 0.2 \\ \hline 0.24 \end{array}$$

9
$$\begin{array}{r} 0.12 \\ \times 0.2 \\ \hline 0.024 \end{array}$$

Describe a pattern you see in one of the sets of problems above.

Answers will vary. Students may see in Set A that the nonzero numbers in the basic fact stay the same in the row, but the number of decimal places changes—if there is one decimal place in the factors, there is one in the product; two decimal places in the factors, two in the product.

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Fluency Practice

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Decimal Division—Skills Practice

Name: _____

Divide decimals through hundredths.

Form A

1 $3.2 \div 4 = \underline{0.8}$

2 $12 \div 0.12 = \underline{100}$

3 $2.8 \div 0.7 = \underline{4}$

4 $0.9 \div 0.1 = \underline{9}$

5 $6 \div 0.3 = \underline{20}$

6 $1.15 \div 0.05 = \underline{23}$

7 $1.32 \div 12 = \underline{0.11}$

8 $1.32 \div 0.12 = \underline{11}$

9 $0.8 \div 4 = \underline{0.2}$

10 $1.04 \div 0.8 = \underline{1.3}$

11 $3.6 \div 0.9 = \underline{4}$

12 $30 \div 0.5 = \underline{60}$

13 $24 \div 0.04 = \underline{600}$

14 $1.2 \div 0.6 = \underline{2}$

15 $1.2 \div 0.06 = \underline{20}$

16 $0.15 \div 3 = \underline{0.05}$

17 $3.33 \div 0.3 = \underline{11.1}$

18 $28 \div 1.4 = \underline{20}$

19 $1.05 \div 5 = \underline{0.21}$

20 $1.05 \div 0.05 = \underline{21}$

21 $0.49 \div 0.7 = \underline{0.7}$

22 $0.8 \div 8 = \underline{0.1}$

23 $4.4 \div 11 = \underline{0.4}$

24 $0.36 \div 6 = \underline{0.06}$

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Fluency Practice

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Decimal Division—Skills Practice

Name: _____

Divide decimals through hundredths.

Form B

- 1 $2.4 \div 6 = \underline{0.4}$
- 2 $13 \div 0.13 = \underline{100}$
- 3 $3.5 \div 0.7 = \underline{5}$
- 4 $0.2 \div 0.1 = \underline{2}$
- 5 $8 \div 0.4 = \underline{20}$
- 6 $1.05 \div 0.05 = \underline{21}$
- 7 $1.44 \div 12 = \underline{0.12}$
- 8 $1.44 \div 0.12 = \underline{12}$
- 9 $0.6 \div 2 = \underline{0.3}$
- 10 $1.12 \div 0.8 = \underline{1.4}$
- 11 $4.2 \div 0.7 = \underline{6}$
- 12 $45 \div 0.5 = \underline{90}$
- 13 $36 \div 0.09 = \underline{400}$
- 14 $1.8 \div 0.6 = \underline{3}$
- 15 $1.8 \div 0.06 = \underline{30}$
- 16 $0.21 \div 3 = \underline{0.07}$
- 17 $2.22 \div 0.2 = \underline{11.1}$
- 18 $24 \div 1.2 = \underline{20}$
- 19 $1.25 \div 5 = \underline{0.25}$
- 20 $1.25 \div 0.05 = \underline{25}$
- 21 $0.64 \div 0.8 = \underline{0.8}$
- 22 $0.9 \div 9 = \underline{0.1}$
- 23 $3.3 \div 11 = \underline{0.3}$
- 24 $0.81 \div 9 = \underline{0.09}$

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Fluency Practice

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Decimal Division—Repeated Reasoning

Name: _____

Find place value patterns.

Set A

- 1 $12 \div 0.1 = \underline{120}$
- 2 $60 \div 0.1 = \underline{600}$
- 3 $12 \div 0.2 = \underline{60}$
- 4 $60 \div 0.2 = \underline{300}$
- 5 $12 \div 0.3 = \underline{40}$
- 6 $60 \div 0.3 = \underline{200}$
- 7 $12 \div 0.4 = \underline{30}$
- 8 $60 \div 0.4 = \underline{150}$
- 9 $12 \div 0.6 = \underline{20}$
- 10 $60 \div 0.6 = \underline{100}$

Set B

- 1 $\frac{10}{0.2 \overline{)2}}$
- 2 $\frac{1}{0.2 \overline{)0.2}}$
- 3 $\frac{0.1}{0.2 \overline{)0.02}}$
- 4 $\frac{20}{0.2 \overline{)4}}$
- 5 $\frac{2}{0.2 \overline{)0.4}}$
- 6 $\frac{0.2}{0.2 \overline{)0.04}}$
- 7 $\frac{30}{0.2 \overline{)6}}$
- 8 $\frac{3}{0.2 \overline{)0.6}}$
- 9 $\frac{0.3}{0.2 \overline{)0.06}}$

Describe a pattern you see in one of the sets of problems above.

Answers will vary. Students may see in Set B that as the dividend decreases by a power of 10, the quotient also decreases by a power of 10.

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Fluency Practice

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Fraction Addition—Skills Practice

Name: _____

Add fractions or mixed numbers.

Form A

- 1 $2\frac{3}{10} + \frac{2}{5} = \underline{2\frac{7}{10}}$
- 2 $\frac{3}{4} + 3\frac{5}{6} = \underline{4\frac{7}{12}}$
- 3 $\frac{1}{2} + \frac{3}{8} = \underline{\frac{7}{8}}$
- 4 $1\frac{1}{2} + 2\frac{2}{3} = \underline{4\frac{1}{6}}$
- 5 $2\frac{3}{5} + 1\frac{1}{3} = \underline{3\frac{14}{15}}$
- 6 $\frac{1}{5} + \frac{3}{4} = \underline{\frac{19}{20}}$
- 7 $9\frac{2}{3} + \frac{5}{6} = \underline{10\frac{3}{6} \text{ or } 10\frac{1}{2}}$
- 8 $\frac{11}{12} + 2\frac{3}{4} = \underline{3\frac{8}{12} \text{ or } 3\frac{2}{3}}$
- 9 $2\frac{1}{2} + 1\frac{2}{5} = \underline{3\frac{9}{10}}$
- 10 $\frac{1}{4} + 1\frac{1}{3} = \underline{1\frac{7}{12}}$
- 11 $\frac{3}{4} + \frac{9}{10} = \underline{1\frac{13}{20}}$
- 12 $3\frac{7}{10} + 1\frac{1}{2} = \underline{5\frac{2}{10} \text{ or } 5\frac{1}{5}}$
- 13 $2\frac{1}{4} + \frac{3}{8} = \underline{2\frac{5}{8}}$

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Fluency Practice

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Fraction Addition—Skills Practice

Name: _____

Add fractions or mixed numbers.

Form B

- 1 $1\frac{1}{3} + \frac{1}{6} = \underline{1\frac{3}{6} \text{ or } 1\frac{1}{2}}$
- 2 $\frac{3}{5} + 3\frac{1}{2} = \underline{4\frac{1}{10}}$
- 3 $\frac{1}{2} + \frac{5}{12} = \underline{\frac{11}{12}}$
- 4 $2\frac{9}{10} + 2\frac{1}{4} = \underline{5\frac{3}{20}}$
- 5 $1\frac{3}{8} + 1\frac{1}{6} = \underline{2\frac{13}{24}}$
- 6 $\frac{2}{3} + \frac{1}{8} = \underline{\frac{19}{24}}$
- 7 $3\frac{7}{10} + \frac{4}{5} = \underline{4\frac{5}{10} \text{ or } 4\frac{1}{2}}$
- 8 $\frac{3}{4} + 2\frac{1}{2} = \underline{3\frac{1}{4}}$
- 9 $4\frac{1}{4} + 3\frac{1}{3} = \underline{7\frac{7}{12}}$
- 10 $\frac{3}{5} + 1\frac{1}{4} = \underline{1\frac{17}{20}}$
- 11 $\frac{4}{5} + \frac{1}{3} = \underline{1\frac{2}{15}}$
- 12 $5\frac{5}{8} + 2\frac{3}{4} = \underline{8\frac{3}{8}}$
- 13 $3\frac{1}{2} + \frac{3}{10} = \underline{3\frac{8}{10} \text{ or } 3\frac{4}{5}}$

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Fluency Practice

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Fraction Addition—Repeated Reasoning

Name: _____

Find regrouping patterns.

Set A

$$1 \quad 1\frac{3}{4} + \frac{1}{4} = \underline{2}$$

$$2 \quad 1\frac{3}{4} + \frac{1}{2} = \underline{2\frac{1}{4}}$$

$$3 \quad 2\frac{3}{4} + \frac{1}{4} = \underline{3}$$

$$4 \quad 2\frac{3}{4} + \frac{1}{2} = \underline{3\frac{1}{4}}$$

$$5 \quad 3\frac{3}{4} + \frac{1}{4} = \underline{4}$$

$$6 \quad 3\frac{3}{4} + \frac{1}{2} = \underline{4\frac{1}{4}}$$

$$7 \quad 4\frac{3}{4} + \frac{1}{4} = \underline{5}$$

$$8 \quad 4\frac{3}{4} + \frac{1}{2} = \underline{5\frac{1}{4}}$$

Set B

$$1 \quad \begin{array}{r} 2\frac{7}{8} \\ + \frac{1}{8} \\ \hline 3 \end{array}$$

$$2 \quad \begin{array}{r} 2\frac{7}{8} \\ + \frac{1}{4} \\ \hline 3\frac{1}{8} \end{array}$$

$$3 \quad \begin{array}{r} 2\frac{7}{8} \\ + \frac{1}{2} \\ \hline 3\frac{3}{8} \end{array}$$

$$4 \quad \begin{array}{r} 3\frac{7}{8} \\ + \frac{1}{8} \\ \hline 4 \end{array}$$

$$5 \quad \begin{array}{r} 3\frac{7}{8} \\ + \frac{1}{4} \\ \hline 4\frac{1}{8} \end{array}$$

$$6 \quad \begin{array}{r} 3\frac{7}{8} \\ + \frac{1}{2} \\ \hline 4\frac{3}{8} \end{array}$$

$$7 \quad \begin{array}{r} 4\frac{7}{8} \\ + \frac{1}{8} \\ \hline 5 \end{array}$$

$$8 \quad \begin{array}{r} 4\frac{7}{8} \\ + \frac{1}{4} \\ \hline 5\frac{1}{8} \end{array}$$

$$9 \quad \begin{array}{r} 4\frac{7}{8} \\ + \frac{1}{2} \\ \hline 5\frac{3}{8} \end{array}$$

Describe a pattern you see in one of the sets of problems above.

Answers will vary. Students may see in Set A that adding $\frac{1}{2}$ to a mixed number that has $\frac{3}{4}$ as its fraction part is the same as adding $1\frac{1}{4}$ to the whole-number part.

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Fluency Practice

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Fraction Subtraction—Skills Practice

Name: _____

Subtract fractions or mixed numbers.

Form A

$$1 \quad 3\frac{3}{4} - \frac{3}{8} = \underline{3\frac{3}{8}}$$

$$2 \quad \frac{4}{5} - \frac{2}{3} = \underline{\frac{2}{15}}$$

$$3 \quad 4\frac{1}{10} - 1 = \underline{3\frac{1}{10}}$$

$$4 \quad 4\frac{1}{4} - 2\frac{5}{12} = \underline{1\frac{10}{12} \text{ or } 1\frac{5}{6}}$$

$$5 \quad 2\frac{1}{2} - \frac{3}{5} = \underline{1\frac{9}{10}}$$

$$6 \quad 5\frac{1}{3} - 1\frac{1}{6} = \underline{4\frac{1}{6}}$$

$$7 \quad 3 - \frac{3}{8} = \underline{2\frac{5}{8}}$$

$$8 \quad \frac{5}{6} - \frac{5}{8} = \underline{\frac{5}{24}}$$

$$9 \quad 5\frac{3}{10} - 4\frac{1}{2} = \underline{\frac{8}{10} \text{ or } \frac{4}{5}}$$

$$10 \quad 3\frac{3}{5} - 1\frac{3}{4} = \underline{1\frac{17}{20}}$$

$$11 \quad \begin{array}{r} 5 \\ - 2\frac{1}{6} \\ \hline 2\frac{5}{6} \end{array}$$

$$12 \quad \begin{array}{r} 1\frac{1}{3} \\ - \frac{3}{12} \\ \hline 1\frac{1}{12} \end{array}$$

$$13 \quad \begin{array}{r} 3\frac{7}{8} \\ - 2\frac{2}{3} \\ \hline 1\frac{5}{24} \end{array}$$

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Fraction Subtraction—Skills Practice

Name: _____

Subtract fractions or mixed numbers.

Form B

$$1 \quad 4\frac{11}{12} - \frac{5}{6} = \underline{4\frac{1}{12}}$$

$$2 \quad \frac{5}{6} - \frac{3}{4} = \underline{\frac{2}{24} \text{ or } \frac{1}{12}}$$

$$3 \quad 5\frac{1}{8} - 4 = \underline{1\frac{1}{8}}$$

$$4 \quad 5\frac{1}{5} - 2\frac{7}{10} = \underline{2\frac{5}{10} \text{ or } 2\frac{1}{2}}$$

$$5 \quad 3\frac{2}{3} - \frac{1}{2} = \underline{3\frac{1}{6}}$$

$$6 \quad 2\frac{5}{12} - 2\frac{1}{4} = \underline{\frac{2}{12} \text{ or } \frac{1}{6}}$$

$$7 \quad 2 - \frac{3}{5} = \underline{1\frac{2}{5}}$$

$$8 \quad \frac{3}{4} - \frac{2}{3} = \underline{\frac{1}{12}}$$

$$9 \quad 4 - 2\frac{5}{12} = \underline{1\frac{7}{12}}$$

$$10 \quad 4\frac{1}{6} - 2\frac{5}{8} = \underline{1\frac{13}{24}}$$

$$11 \quad \begin{array}{r} 4 \\ - 2\frac{5}{12} \\ \hline 1\frac{7}{12} \end{array}$$

$$12 \quad \begin{array}{r} 2\frac{3}{4} \\ - \frac{1}{12} \\ \hline 2\frac{8}{12} \text{ or } 2\frac{2}{3} \end{array}$$

$$13 \quad \begin{array}{r} 8\frac{3}{10} \\ - 3\frac{1}{4} \\ \hline 5\frac{1}{20} \end{array}$$

Fraction Subtraction—Repeated Reasoning

Name: _____

Find regrouping patterns.

Set A

$$1 \quad 1\frac{3}{4} - \frac{1}{2} = \underline{1\frac{1}{4}}$$

$$2 \quad 1\frac{1}{2} - \frac{3}{4} = \underline{\frac{3}{4}}$$

$$3 \quad 2\frac{3}{4} - \frac{1}{2} = \underline{2\frac{1}{4}}$$

$$4 \quad 2\frac{1}{2} - \frac{3}{4} = \underline{1\frac{3}{4}}$$

$$5 \quad 3\frac{3}{4} - \frac{1}{2} = \underline{3\frac{1}{4}}$$

$$6 \quad 3\frac{1}{2} - \frac{3}{4} = \underline{2\frac{3}{4}}$$

$$7 \quad 4\frac{3}{4} - \frac{1}{2} = \underline{4\frac{1}{4}}$$

$$8 \quad 4\frac{1}{2} - \frac{3}{4} = \underline{3\frac{3}{4}}$$

Set B

$$1 \quad \begin{array}{r} 6\frac{1}{4} \\ - \frac{1}{4} \\ \hline 6 \end{array}$$

$$2 \quad \begin{array}{r} 6\frac{1}{4} \\ - \frac{1}{2} \\ \hline 5\frac{3}{4} \end{array}$$

$$3 \quad \begin{array}{r} 6\frac{1}{4} \\ - \frac{3}{4} \\ \hline 5\frac{1}{2} \end{array}$$

$$4 \quad \begin{array}{r} 7\frac{1}{4} \\ - \frac{1}{4} \\ \hline 7 \end{array}$$

$$5 \quad \begin{array}{r} 7\frac{1}{4} \\ - \frac{1}{2} \\ \hline 6\frac{3}{4} \end{array}$$

$$6 \quad \begin{array}{r} 7\frac{1}{4} \\ - \frac{3}{4} \\ \hline 6\frac{1}{2} \end{array}$$

$$7 \quad \begin{array}{r} 8\frac{1}{4} \\ - \frac{1}{4} \\ \hline 8 \end{array}$$

$$8 \quad \begin{array}{r} 8\frac{1}{4} \\ - \frac{1}{2} \\ \hline 7\frac{3}{4} \end{array}$$

$$9 \quad \begin{array}{r} 8\frac{1}{4} \\ - \frac{3}{4} \\ \hline 7\frac{1}{2} \end{array}$$

Describe a pattern you see in one of the sets of problems above.

Answers will vary. Students may see in Set A that subtracting $\frac{3}{4}$ from a mixed number that has $\frac{1}{2}$ for its fraction part results in a difference that is 1 less for the whole-number part and has $\frac{3}{4}$ for the fraction part.

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Fraction Multiplication—Skills Practice

Name: _____

Multiply fractions and whole numbers.

Form A

- 1 $2 \times \frac{3}{8} = \frac{6}{8}$ or $\frac{3}{4}$ 2 $4 \times \frac{2}{3} = \frac{8}{3}$ or $2\frac{2}{3}$ 3 $\frac{1}{2} \times 5 = \frac{5}{2}$ or $2\frac{1}{2}$
- 4 $\frac{2}{5} \times 6 = \frac{12}{5}$ or $2\frac{2}{5}$ 5 $7 \times \frac{3}{10} = \frac{21}{10}$ or $2\frac{1}{10}$ 6 $3 \times \frac{1}{5} = \frac{3}{5}$
- 7 $3 \times \frac{5}{8} = \frac{15}{8}$ or $1\frac{7}{8}$ 8 $\frac{3}{4} \times 2 = \frac{6}{4}$ or $1\frac{1}{2}$ 9 $\frac{2}{3} \times 2 = \frac{4}{3}$ or $1\frac{1}{3}$
- 10 $6 \times \frac{3}{5} = \frac{18}{5}$ or $3\frac{3}{5}$ 11 $\frac{1}{6} \times 3 = \frac{3}{6}$ or $\frac{1}{2}$ 12 $4 \times \frac{4}{5} = \frac{16}{5}$ or $3\frac{1}{5}$
- 13 $\frac{7}{8} \times 5 = \frac{35}{8}$ or $4\frac{3}{8}$ 14 $9 \times \frac{1}{3} = \frac{9}{3}$ or 3 15 $\frac{1}{20} \times 10 = \frac{10}{20}$ or $\frac{1}{2}$
- 16 $8 \times \frac{1}{8} = \frac{8}{8}$ or 1 17 $\frac{5}{12} \times 4 = \frac{20}{12}$ or $1\frac{2}{3}$ 18 $12 \times \frac{3}{4} = \frac{36}{4}$ or 9

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Fraction Multiplication—Skills Practice

Name: _____

Multiply fractions and whole numbers.

Form B

- 1 $\frac{3}{8} \times 3 = \frac{9}{8}$ or $1\frac{1}{8}$ 2 $\frac{2}{3} \times 6 = \frac{12}{3}$ or 4 3 $9 \times \frac{1}{2} = \frac{9}{2}$ or $4\frac{1}{2}$
- 4 $\frac{2}{5} \times 5 = \frac{10}{5}$ or 2 5 $\frac{3}{10} \times 3 = \frac{9}{10}$ 6 $2 \times \frac{1}{5} = \frac{2}{5}$
- 7 $2 \times \frac{5}{8} = \frac{10}{8}$ or $1\frac{1}{4}$ 8 $\frac{3}{4} \times 3 = \frac{9}{4}$ or $2\frac{1}{4}$ 9 $4 \times \frac{2}{3} = \frac{8}{3}$ or $2\frac{2}{3}$
- 10 $\frac{3}{5} \times 8 = \frac{24}{5}$ or $4\frac{4}{5}$ 11 $4 \times \frac{1}{6} = \frac{4}{6}$ or $\frac{2}{3}$ 12 $\frac{4}{5} \times 5 = \frac{20}{5}$ or 4
- 13 $\frac{7}{8} \times 2 = \frac{14}{8}$ or $1\frac{3}{4}$ 14 $6 \times \frac{1}{3} = \frac{6}{3}$ or 2 15 $\frac{1}{20} \times 5 = \frac{5}{20}$ or $\frac{1}{4}$
- 16 $6 \times \frac{1}{6} = \frac{6}{6}$ or 1 17 $\frac{5}{12} \times 3 = \frac{15}{12}$ or $1\frac{1}{4}$ 18 $8 \times \frac{3}{4} = \frac{24}{4}$ or 6

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Fraction Multiplication—Skills Practice

Name: _____

Multiply fractions by fractions.

Form A

- 1 $\frac{3}{4} \times \frac{1}{4} = \frac{3}{16}$ 2 $\frac{1}{5} \times \frac{1}{2} = \frac{1}{10}$ 3 $\frac{2}{3} \times \frac{2}{5} = \frac{4}{15}$
- 4 $\frac{5}{12} \times \frac{1}{2} = \frac{5}{24}$ 5 $\frac{3}{4} \times \frac{3}{8} = \frac{9}{32}$ 6 $\frac{4}{5} \times \frac{5}{6} = \frac{20}{30}$ or $\frac{2}{3}$
- 7 $\frac{7}{10} \times \frac{7}{10} = \frac{49}{100}$ 8 $\frac{2}{3} \times \frac{2}{3} = \frac{4}{9}$ 9 $\frac{9}{10} \times \frac{1}{2} = \frac{9}{20}$
- 10 $\frac{1}{3} \times \frac{1}{6} = \frac{1}{18}$ 11 $\frac{5}{8} \times \frac{8}{5} = \frac{40}{40}$ or 1 12 $\frac{3}{10} \times \frac{3}{5} = \frac{9}{50}$
- 13 $\frac{3}{8} \times \frac{5}{8} = \frac{15}{64}$ 14 $\frac{2}{5} \times \frac{4}{5} = \frac{8}{25}$ 15 $\frac{1}{4} \times \frac{4}{4} = \frac{4}{4}$ or 1
- 16 $\frac{9}{10} \times \frac{3}{4} = \frac{27}{40}$ 17 $\frac{1}{3} \times \frac{7}{10} = \frac{7}{30}$ 18 $\frac{7}{8} \times \frac{2}{3} = \frac{14}{24}$ or $\frac{7}{12}$

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Fraction Multiplication—Skills Practice

Name: _____

Multiply fractions by fractions.

Form B

- 1 $\frac{2}{5} \times \frac{1}{5} = \frac{2}{25}$ 2 $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$ 3 $\frac{3}{5} \times \frac{3}{8} = \frac{9}{40}$
- 4 $\frac{5}{8} \times \frac{1}{2} = \frac{5}{16}$ 5 $\frac{2}{3} \times \frac{2}{8} = \frac{4}{24}$ or $\frac{1}{6}$ 6 $\frac{3}{4} \times \frac{4}{5} = \frac{12}{20}$ or $\frac{3}{5}$
- 7 $\frac{3}{10} \times \frac{3}{10} = \frac{9}{100}$ 8 $\frac{5}{8} \times \frac{5}{8} = \frac{25}{64}$ 9 $\frac{9}{12} \times \frac{1}{2} = \frac{9}{24}$ or $\frac{3}{8}$
- 10 $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$ 11 $\frac{4}{5} \times \frac{5}{4} = \frac{20}{20}$ or 1 12 $\frac{2}{5} \times \frac{2}{3} = \frac{4}{15}$
- 13 $\frac{3}{10} \times \frac{7}{10} = \frac{21}{100}$ 14 $\frac{5}{6} \times \frac{10}{8} = \frac{50}{48}$ or $1\frac{1}{24}$ 15 $\frac{1}{6} \times \frac{6}{1} = \frac{6}{6}$ or 1
- 16 $\frac{7}{8} \times \frac{5}{6} = \frac{35}{48}$ 17 $\frac{1}{12} \times \frac{2}{3} = \frac{2}{36}$ or $\frac{1}{18}$ 18 $\frac{3}{4} \times \frac{5}{8} = \frac{15}{32}$

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Fraction Multiplication—Repeated Reasoning

Name: _____

Multiply by a unit fraction to find patterns.

Set A

1 $12 \div 2 = \underline{6}$

2 $12 \times \frac{1}{2} = \frac{12}{2} = \underline{6}$

3 $12 \div 3 = \underline{4}$

4 $12 \times \frac{1}{3} = \frac{12}{3} = \underline{4}$

5 $12 \div 4 = \underline{3}$

6 $12 \times \frac{1}{4} = \frac{12}{4} = \underline{3}$

7 $12 \div 6 = \underline{2}$

8 $12 \times \frac{1}{6} = \frac{12}{6} = \underline{2}$

9 $12 \div 12 = \underline{1}$

10 $12 \times \frac{1}{12} = \frac{12}{12} = \underline{1}$

Set B

1 $6 \div 6 = \underline{1}$

2 $6 \times \frac{1}{6} = \frac{6}{6} = \underline{1}$

3 $60 \div 60 = \underline{1}$

4 $60 \times \frac{1}{60} = \frac{60}{60} = \underline{1}$

5 $600 \div 600 = \underline{1}$

6 $600 \times \frac{1}{600} = \frac{600}{600} = \underline{1}$

Describe a pattern you see in one of the sets of problems above.

Answers will vary. Students may see that if you divide a number by one of its factors the answer is the same as when you multiply the number by a unit fraction with the factor as its denominator.

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Fraction Division—Skills Practice

Name: _____

Divide a fraction by a whole number and divide a whole number by a fraction.

Form A

1 $2 \div \frac{1}{3} = \underline{6}$

2 $3 \div \frac{1}{2} = \underline{6}$

3 $5 \div \frac{1}{5} = \underline{25}$

4 $\frac{1}{3} \div 3 = \underline{\frac{1}{9}}$

5 $\frac{1}{4} \div 5 = \underline{\frac{1}{20}}$

6 $\frac{1}{5} \div 4 = \underline{\frac{1}{20}}$

7 $3 \div \frac{1}{4} = \underline{12}$

8 $4 \div \frac{1}{3} = \underline{12}$

9 $6 \div \frac{1}{5} = \underline{30}$

10 $\frac{1}{5} \div 2 = \underline{\frac{1}{10}}$

11 $\frac{1}{3} \div 6 = \underline{\frac{1}{18}}$

12 $\frac{1}{6} \div 3 = \underline{\frac{1}{18}}$

13 $2 \div \frac{1}{6} = \underline{12}$

14 $5 \div \frac{1}{4} = \underline{20}$

15 $4 \div \frac{1}{5} = \underline{20}$

16 $\frac{1}{5} \div 2 = \underline{\frac{1}{10}}$

17 $\frac{1}{2} \div 5 = \underline{\frac{1}{10}}$

18 $\frac{1}{3} \div 2 = \underline{\frac{1}{6}}$

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Fraction Division—Skills Practice

Name: _____

Divide a fraction by a whole number and divide a whole number by a fraction.

Form B

1 $5 \div \frac{1}{3} = \underline{15}$

2 $3 \div \frac{1}{5} = \underline{15}$

3 $2 \div \frac{1}{2} = \underline{4}$

4 $\frac{1}{2} \div 2 = \underline{\frac{1}{4}}$

5 $\frac{1}{4} \div 2 = \underline{\frac{1}{8}}$

6 $\frac{1}{2} \div 4 = \underline{\frac{1}{8}}$

7 $2 \div \frac{1}{5} = \underline{10}$

8 $5 \div \frac{1}{2} = \underline{10}$

9 $4 \div \frac{1}{6} = \underline{24}$

10 $\frac{1}{3} \div 5 = \underline{\frac{1}{25}}$

11 $\frac{1}{6} \div 4 = \underline{\frac{1}{24}}$

12 $\frac{1}{4} \div 6 = \underline{\frac{1}{24}}$

13 $6 \div \frac{1}{3} = \underline{18}$

14 $10 \div \frac{1}{2} = \underline{20}$

15 $2 \div \frac{1}{10} = \underline{20}$

16 $\frac{1}{2} \div 6 = \underline{\frac{1}{12}}$

17 $\frac{1}{6} \div 2 = \underline{\frac{1}{12}}$

18 $\frac{1}{8} \div 5 = \underline{\frac{1}{40}}$

Fraction Division—Repeated Reasoning

Name: _____

Divide by a unit fraction to find patterns.

Set A

1 $6 \times 2 = \underline{12}$

2 $6 \div \frac{1}{2} = \underline{12}$

3 $6 \times 3 = \underline{18}$

4 $6 \div \frac{1}{3} = \underline{18}$

5 $6 \times \underline{4} = 24$

6 $6 \div \frac{1}{4} = 24$

7 $6 \times \underline{5} = 30$

8 $6 \div \frac{1}{5} = 30$

9 $6 \times \underline{6} = 36$

10 $6 \div \frac{1}{6} = 36$

Set B

1 $7 \times 10 = \underline{70}$

2 $7 \div \frac{1}{10} = \underline{70}$

3 $8 \times 10 = \underline{80}$

4 $8 \div \frac{1}{10} = \underline{80}$

5 $9 \times 10 = \underline{90}$

6 $9 \div \frac{1}{10} = \underline{90}$

7 $10 \times 10 = \underline{100}$

8 $10 \div \frac{1}{10} = \underline{100}$

Describe a pattern you see in one of the sets of problems above.

Answers will vary. Students may see in Set B that both multiplying a number by 10 and dividing it by $\frac{1}{10}$ increases the value of the number 10 times.

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