

Division

Skill 4 - 13D

Dividing by 8 and 9

| STEP 1 | STEP 2 | STEP 3 | STEP 4 |
|---|---|---|--|
| <p>Where do you place the first digit?</p> $\begin{array}{r} 8 \overline{)489} \end{array}$ <p>$4 < 8$ so you cannot divide the hundreds.</p> | <p>Divide 48 tens by 8.</p> $\begin{array}{r} 6 \\ 8 \overline{)489} \\ - 48 \\ \hline 0 \end{array}$ <p>Divide. Multiply. Subtract. Compare. $0 < 8$</p> | <p>Bring down the 8 ones and divide.</p> $\begin{array}{r} 61 \text{ r}1 \\ 8 \overline{)489} \\ - 48 \downarrow \\ \hline 09 \\ - 8 \\ \hline 1 \end{array}$ <p>Divide. Multiply. Subtract. Compare. $2 < 6$</p> | <p>Check.</p> $\begin{array}{r} 61 \\ \times 8 \\ \hline 488 \\ + 1 \\ \hline 489 \end{array}$ |

| | | | | | |
|---|---|--|---|-------------------------------|--------------|
| $\begin{array}{r} 46 \text{ r}2 \\ 8 \overline{)370} \\ - 32 \downarrow \\ \hline 50 \\ - 48 \\ \hline 2 \end{array}$ | <p>Check</p> $\begin{array}{r} 46 \\ \times 8 \\ \hline 368 \\ + 2 \\ \hline 370 \end{array}$ | $\begin{array}{r} 321 \\ 9 \overline{)2,889} \\ - 27 \downarrow \\ \hline 18 \\ - 18 \downarrow \\ \hline 09 \\ - 9 \\ \hline 0 \end{array}$ | <p>Check</p> $\begin{array}{r} 321 \\ \times 9 \\ \hline 2,889 \end{array}$ | <p>1.</p> $8 \overline{)616}$ | <p>Check</p> |
| <p>2.</p> $8 \overline{)461}$ | <p>Check</p> | <p>3.</p> $8 \overline{)514}$ | <p>Check</p> | <p>4.</p> $9 \overline{)749}$ | <p>Check</p> |
| <p>5.</p> $8 \overline{)661}$ | <p>Check</p> | <p>6.</p> $8 \overline{)187}$ | <p>Check</p> | <p>7.</p> $9 \overline{)577}$ | <p>Check</p> |

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Directions: Divide and use multiplication to check your answer.

| | | | | | |
|--|-------|--------------------------------------|-------|---------------------------------------|-------|
| 8. $9 \overline{)2,919}$ | Check | 9. $8 \overline{)923}$ | Check | 10. $9 \overline{)889}$ | Check |
|--|-------|--------------------------------------|-------|---------------------------------------|-------|

| | | | | | |
|---|-------|---|-------|---|-------|
| 11. $8 \overline{)1,888}$ | Check | 12. $9 \overline{)2,235}$ | Check | 13. $8 \overline{)2,524}$ | Check |
|---|-------|---|-------|---|-------|

| | | | | | |
|---|-------|---------------------------------------|-------|---------------------------------------|-------|
| 14. $8 \overline{)5,017}$ | Check | 15. $8 \overline{)691}$ | Check | 16. $9 \overline{)805}$ | Check |
|---|-------|---------------------------------------|-------|---------------------------------------|-------|

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Directions: Divide and use multiplication to check your answer.

| | | | | | |
|---|-------|---|-------|---|-------|
| 17. $8 \overline{)2,868}$ | Check | 18. $9 \overline{)3,799}$ | Check | 19. $8 \overline{)5,188}$ | Check |
|---|-------|---|-------|---|-------|

| | | | | | |
|---|-------|---|-------|---|-------|
| 20. $8 \overline{)6,285}$ | Check | 21. $9 \overline{)5,333}$ | Check | 22. $9 \overline{)7,911}$ | Check |
|---|-------|---|-------|---|-------|

| | | | | | |
|---|-------|---|-------|---|-------|
| 23. $9 \overline{)6,672}$ | Check | 24. $8 \overline{)5,192}$ | Check | 25. $9 \overline{)5,292}$ | Check |
|---|-------|---|-------|---|-------|

Answer Key
Skill 4 - 13D

| | | | | | |
|--------------------------|---|--------------------------|---|--------------------------|---|
| | | | | 1. 77 | Check 77 <u>x 8</u> 616 |
| 2. 57 r5 | $\begin{array}{r} 57 \\ \times 8 \\ \hline 456 \\ + 5 \\ \hline 461 \end{array}$ | 3. 64 r2 | $\begin{array}{r} 64 \\ \times 8 \\ \hline 512 \\ + 2 \\ \hline 514 \end{array}$ | 4. 83 r2 | $\begin{array}{r} 83 \\ \times 9 \\ \hline 747 \\ + 2 \\ \hline 749 \end{array}$ |
| 5. 82 r5 | $\begin{array}{r} 82 \\ \times 8 \\ \hline 656 \\ + 5 \\ \hline 661 \end{array}$ | 6. 23 r3 | $\begin{array}{r} 23 \\ \times 8 \\ \hline 184 \\ + 3 \\ \hline 187 \end{array}$ | 7. 64 r1 | $\begin{array}{r} 64 \\ \times 9 \\ \hline 576 \\ + 1 \\ \hline 577 \end{array}$ |
| 8. 324 r3 | $\begin{array}{r} 324 \\ \times 9 \\ \hline 2,916 \\ + 3 \\ \hline 2,919 \end{array}$ | 9. 115 r3 | $\begin{array}{r} 115 \\ \times 8 \\ \hline 920 \\ + 3 \\ \hline 923 \end{array}$ | 10. 98 r7 | $\begin{array}{r} 98 \\ \times 9 \\ \hline 882 \\ + 7 \\ \hline 889 \end{array}$ |
| 11. 236 | $\begin{array}{r} 236 \\ \times 8 \\ \hline 1,888 \end{array}$ | 12. 248 r3 | $\begin{array}{r} 248 \\ \times 9 \\ \hline 2,232 \\ + 3 \\ \hline 2,235 \end{array}$ | 13. 315 r4 | $\begin{array}{r} 315 \\ \times 8 \\ \hline 2,520 \\ + 4 \\ \hline 2,524 \end{array}$ |
| 14. 627 r1 | $\begin{array}{r} 627 \\ \times 8 \\ \hline 5,016 \\ + 1 \\ \hline 5,017 \end{array}$ | 15. 86 r3 | $\begin{array}{r} 86 \\ \times 8 \\ \hline 688 \\ + 3 \\ \hline 691 \end{array}$ | 16. 89 r4 | $\begin{array}{r} 89 \\ \times 9 \\ \hline 801 \\ + 4 \\ \hline 805 \end{array}$ |
| 17. 358 r4 | $\begin{array}{r} 358 \\ \times 8 \\ \hline 2,864 \\ + 4 \\ \hline 2,868 \end{array}$ | 18. 422 r1 | $\begin{array}{r} 422 \\ \times 9 \\ \hline 3,798 \\ + 1 \\ \hline 3,799 \end{array}$ | 19. 648 r4 | $\begin{array}{r} 648 \\ \times 7 \\ \hline 5,184 \\ + 4 \\ \hline 5,188 \end{array}$ |
| 20. 785 r5 | $\begin{array}{r} 785 \\ \times 8 \\ \hline 6,280 \\ + 5 \\ \hline 6,285 \end{array}$ | 21. 592 r5 | $\begin{array}{r} 592 \\ \times 9 \\ \hline 5,328 \\ + 5 \\ \hline 5,333 \end{array}$ | 22. 879 | $\begin{array}{r} 879 \\ \times 9 \\ \hline 7,911 \end{array}$ |
| 23. 741 r3 | $\begin{array}{r} 741 \\ \times 9 \\ \hline 6,669 \\ + 3 \\ \hline 6,672 \end{array}$ | 24. 649 | $\begin{array}{r} 649 \\ \times 8 \\ \hline 5,192 \end{array}$ | 25. 588 | $\begin{array}{r} 588 \\ \times 9 \\ \hline 5292 \end{array}$ |