

Dividing Decimals

Procedure:

1. Move the decimal point as far to the right as possible in the divisor.
2. Move the decimal point the same number of places to the right in the dividend.
3. Bring the decimal point straight up into the quotient.
4. Divide normally.

Example: $.12 \overline{)2.496} \rightarrow 12 \overline{)249.6}$

The division algorithm with decimals is the same as with Whole Number, the difference is moving the decimal points. Placement of the numbers in the quotient is important!

Divide.

1. $5 \overline{)195.1}$

2. $2 \overline{)61.8}$

3. $.2 \overline{)201.5}$

4. $.9 \overline{)21.09}$

5. $.7 \overline{)246.85}$

6. $.2 \overline{)19.3}$

7. $3 \overline{)211.2}$

8. $.8 \overline{)129.5}$

9. $.8 \overline{)185.0}$

10. $.9 \overline{)52.83}$

11. $6 \overline{)70.31}$

12. $8 \overline{)120.88}$

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Example: $.12 \overline{)2.496} \rightarrow 12 \overline{)249.6}$ 20.8

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Divide

1. $.9 \overline{)51.5}$

2. $.4 \overline{)51.1}$

3. $.2 \overline{)132.28}$

4. $.5 \overline{)102.8}$

5. $9 \overline{)154.46}$

6. $.3 \overline{)61.34}$

7. $.9 \overline{)175.24}$

8. $3 \overline{)107.46}$

9. $.7 \overline{)147.6}$

10. $.3 \overline{)158.1}$

11. $7 \overline{)58.39}$

12. $.7 \overline{)169.57}$

13. $.5 \overline{)92.7}$

14. $5 \overline{)16.82}$

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Trial Divisor Works

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Divide

$$21 \overline{)135.8}$$

$$3.2 \overline{)20.96}$$

$$51 \overline{)2.287}$$

$$6.3 \overline{)20.49}$$

$$.73 \overline{)16.895}$$

$$8.2 \overline{)3.479}$$

$$3.3 \overline{)10.587}$$

$$.41 \overline{)2.3779}$$

$$9.1 \overline{)30.78}$$

$$.92 \overline{)18.795}$$

$$.072 \overline{)1.685}$$

$$6.3 \overline{)200.89}$$

$$7.23 \overline{)40.587}$$

$$902 \overline{)2089.7}$$

$$5.12 \overline{)33.678}$$

$$21.3 \overline{)13.68}$$

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Divide.

1. $19 \overline{)171.0}$

2. $2.2 \overline{)191.52}$

3. $2.5 \overline{)37.4}$

4. $24 \overline{)13.08}$

5. $24 \overline{)2.477}$

6. $.16 \overline{)3.837}$

7. $11 \overline{)36.7}$

8. $19 \overline{)245.8}$

9. $2.2 \overline{)204.16}$

10. $1.5 \overline{)14.17}$

11. $.15 \overline{)22.76}$

12. $13 \overline{)190.82}$

13. $1.4 \overline{)18.05}$

14. $23 \overline{)11.057}$

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Divide

1. $14 \overline{)176.7}$

2. $17 \overline{)245.81}$

3. $18 \overline{)169.13}$

4. $19 \overline{)69.1}$

5. $22 \overline{)242.1}$

6. $25 \overline{)102.15}$

7. $11 \overline{)51.09}$

8. $20 \overline{)230.5}$

9. $21 \overline{)246.94}$

10. $17 \overline{)36.25}$

11. $23 \overline{)219.35}$

12. $13 \overline{)82.5}$

13. $12 \overline{)18.0}$

14. $22 \overline{)18.36}$