

Dividing by 2 Digits

Use a fact you know. Then estimate with compatible numbers.

Divide. Use the fact and the pattern of zeros.

Example

$$48 \div 6 = 8$$

$$480 \div 60 = 8$$

$$4,800 \div 60 = 80$$

1.

$$28 \div 4 = \underline{\hspace{2cm}}$$

$$280 \div 40 = \underline{\hspace{2cm}}$$

$$2,800 \div 40 = \underline{\hspace{2cm}}$$

2.

$$16 \div 2 = \underline{\hspace{2cm}}$$

$$160 \div 20 = \underline{\hspace{2cm}}$$

$$1,600 \div 20 = \underline{\hspace{2cm}}$$

3.

$$30 \div 5 = \underline{\hspace{2cm}}$$

$$300 \div 50 = \underline{\hspace{2cm}}$$

$$3,000 \div 50 = \underline{\hspace{2cm}}$$

Divide. Find the basic fact first.

4. $2,400 \div 30 = \underline{\hspace{2cm}}$

5. $560 \div 70 = \underline{\hspace{2cm}}$

6. $1,200 \div 20 = \underline{\hspace{2cm}}$

7. $2,000 \div 50 = \underline{\hspace{2cm}}$

Estimate with compatible numbers. Round the divisor to the nearest ten.

Example

$$3,175 \div 42 \text{ is about } 3,200 \div 40 = 80$$

8. $1,789 \div 19$ is about $\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

9. $4,129 \div 62$ is about $\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

10. $2,385 \div 58$ is about $\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

11. $638 \div 21$ is about $\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

Dividing by 2 Digits

Break the dividend into parts the divisor goes into easily.

Write each side. The last part is what is left. Add the sides.

Example

$782 \div 23$

30	4
23	690
23	92

 $782 \div 23 = 34$

1. $864 \div 18$

18	720	_____
----	-----	-------

 $864 \div 18 = \underline{\hspace{2cm}}$

2. $3,936 \div 16$

16	3,200	640	_____
----	-------	-----	-------

 $3,936 \div 16 = \underline{\hspace{2cm}}$

3. $9,288 \div 43$

43	8,600	430	_____
----	-------	-----	-------

 $9,288 \div 43 = \underline{\hspace{2cm}}$

Use partial quotients. Take away 100s, then 10s, then 1s of the divisor.

Example

17	4375	
-	3400	200
	975	
-	850	50
	125	
-	119	7
	6	257

Answer: 257 R 6

4.

14	1946	

Answer: _____ R _____

5.

35	7853	

Answer: _____ R _____

Dividing by 2 Digits

Round the divisor to estimate each digit. Then check it.

Is the estimate right? Multiply to check. Then fix it.

Estimate: round the divisor. $157 \div 23$ is about $157 \div 20$, so try 7.

Too big: the product is more than the number. Try 1 less.

Too small: what is left is not less than the divisor. Try 1 more.

Example

$157 \div 23$

Try 7

$23 \times 7 = 161$

Digit: 6

Too big

Too small

Just right

1. $196 \div 28$

Try 6

$28 \times 6 = \underline{\hspace{2cm}}$

Digit:

Too big

Too small

Just right

2. $127 \div 32$

Try 4

$32 \times 4 = \underline{\hspace{2cm}}$

Digit:

Too big

Too small

Just right

3. $98 \div 21$

Try 4

$21 \times 4 = \underline{\hspace{2cm}}$

Digit:

Too big

Too small

Just right

4. $158 \div 19$

Try 7

$19 \times 7 = \underline{\hspace{2cm}}$

Digit:

Too big

Too small

Just right

5. $185 \div 22$

Try 9

$22 \times 9 = \underline{\hspace{2cm}}$

Digit:

Too big

Too small

Just right

Divide. Round the divisor first. Check each digit.

Example

Round 21: 20

						6	4
21	)	1	3	5	3		
		-	1	2	6		
						9	3
						-	8
							4
							9

21×6

21×4

Answer: 64 R 9

6.

Round 26:

26	)	1	9	6	2		

Answer: R

7.

Round 24:

24	)	1	7	4	2		

Answer: R

Dividing by 2 Digits

Bigger dividends, zeros in the quotient, remainders three ways.

Divide. When the divisor does not go in, write 0 in the quotient.

Example

$$\begin{array}{r}
 403 \\
 21 \overline{) 8463} \\
 \underline{- 84} \\
 6 \\
 \underline{- 0} \\
 63 \\
 \underline{- 63} \\
 0
 \end{array}$$

Answer: 403 R 0

1.

$$\begin{array}{r}
 \\
 19 \overline{) 5807} \\
 \\
 \\
 \\
 \\
 \\
 \\

 \end{array}$$

Answer: _____ R _____

2.

$$\begin{array}{r}
 \\
 23 \overline{) 18486} \\
 \\
 \\
 \\
 \\
 \\
 \\

 \end{array}$$

Answer: _____ R _____

Divide. Write the remainder three ways, the fraction in simplest form.

Example

$$\begin{array}{r}
 41 \\
 24 \overline{) 990} \\
 \underline{- 96} \\
 30 \\
 \underline{- 24} \\
 6
 \end{array}$$

After R

41 R 6

As a fraction

$$41 \frac{6}{24} = 41 \frac{1}{4}$$

As a decimal

41.25

3.

$$\begin{array}{r}
 \\
 15 \overline{) 1326} \\
 \\
 \\
 \\
 \\
 \\
 \\

 \end{array}$$

After R

_____ R _____

As a fraction

$$\frac{\boxed{}}{\boxed{}}$$

As a decimal

4.

$$\begin{array}{r}
 \\
 52 \overline{) 3094} \\
 \\
 \\
 \\
 \\
 \\
 \\

 \end{array}$$

After R

_____ R _____

As a fraction

$$\frac{\boxed{}}{\boxed{}}$$

As a decimal

5.

$$\begin{array}{r}
 \\
 12 \overline{) 813} \\
 \\
 \\
 \\
 \\
 \\
 \\

 \end{array}$$

After R

_____ R _____

As a fraction

$$\frac{\boxed{}}{\boxed{}}$$

As a decimal

Dividing by 2 Digits

Estimate first. Then divide and decide what the remainder means.

One division, four answers: $920 \div 32 = 28 \text{ R } 24$.

Example Estimate first: $900 \div 30 = 30$. Then read each question carefully.

920 students ride buses. A bus holds **32**.
How many buses are needed?

29 buses

Round up

920 crayons are packed **32** to a box.
How many boxes are full?

28 boxes

Drop it

920 cards are dealt equally to **32**
players. How many are left over?

24 cards

Remainder

32 friends share **\$920** equally. How
much does each one get?

\$28.75 each

Share it

Estimate. Divide. Answer. Circle what you did with the remainder.

- 1. 762** people come to a banquet. A table seats **18**. How many tables are needed?

Estimate: _____ $\div$ _____ = _____

_____ $\div$ _____ = _____ R _____

Answer: _____ tables

Round up Drop it Remainder Share it

- 2. A** bakery packs **2,350** cookies, **36** to a tin. How many tins can it fill?

Estimate: _____ $\div$ _____ = _____

_____ $\div$ _____ = _____ R _____

Answer: _____ tins

Round up Drop it Remainder Share it

- 3. 1,427** sheets of paper are shared equally by **21** classes. How many are left over?

Estimate: _____ $\div$ _____ = _____

_____ $\div$ _____ = _____ R _____

Answer: _____ sheets

Round up Drop it Remainder Share it

- 4. 16** teams share **60** pizzas equally. How much pizza does each team get?

Estimate: _____ $\div$ _____ = _____

_____ $\div$ _____ = _____ R _____

Answer: _____ pizzas

Round up Drop it Remainder Share it

Dividing by 2 Digits

Use a fact you know. Then estimate with compatible numbers.

Divide. Use the fact and the pattern of zeros.

Example

$$\begin{array}{rcl} 48 \div 6 & = & 8 \\ 480 \div 60 & = & 8 \\ 4,800 \div 60 & = & 80 \end{array}$$

1.

$$\begin{array}{rcl} 28 \div 4 & = & \underline{\hspace{2cm}} \\ 280 \div 40 & = & \underline{\hspace{2cm}} \\ 2,800 \div 40 & = & \underline{\hspace{2cm}} \end{array}$$

2.

$$\begin{array}{rcl} 16 \div 2 & = & \underline{\hspace{2cm}} \\ 160 \div 20 & = & \underline{\hspace{2cm}} \\ 1,600 \div 20 & = & \underline{\hspace{2cm}} \end{array}$$

3.

$$\begin{array}{rcl} 30 \div 5 & = & \underline{\hspace{2cm}} \\ 300 \div 50 & = & \underline{\hspace{2cm}} \\ 3,000 \div 50 & = & \underline{\hspace{2cm}} \end{array}$$

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$$3,175 \div 42 \text{ is about } \underline{3,200} \div \underline{40} = \underline{80}$$

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$782 \div 23$

<u>30</u>	<u>4</u>
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 $782 \div 23 = 34$

1. $864 \div 18$

<u> </u>	<u> </u>
18 $\overline{)720}$	$\overline{) }$

 $864 \div 18 = \underline{\hspace{2cm}}$

2. $3,936 \div 16$

<u> </u>	<u> </u>	<u> </u>
16 $\overline{)3,200}$	$\overline{)640}$	$\overline{) }$

 $3,936 \div 16 = \underline{\hspace{2cm}}$

3. $9,288 \div 43$

<u> </u>	<u> </u>	<u> </u>
43 $\overline{)8,600}$	$\overline{)430}$	$\overline{) }$

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Use partial quotients. Take away 100s, then 10s, then 1s of the divisor.

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Answer: 257 R 6

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Try 9

$22 \times 9 =$

Digit: _____

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Too small

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Divide. Round the divisor first. Check each digit.

Example

Round 21: 20

			6	4	
21	)	1	3	5	3
		-	1	2	6
				9	3
			-	8	4
					9

21 $\times$ 6

21 $\times$ 4

Answer: 64 R 9

6.

Round 26: _____

26	)	1	9	6	2

Answer: _____ R _____

7.

Round 24: _____

24	)	1	7	4	2

Answer: _____ R _____

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Bigger dividends, zeros in the quotient, remainders three ways.

Divide. When the divisor does not go in, write 0 in the quotient.

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$$\begin{array}{r}
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 \underline{- 84} \\
 6 \\
 \underline{- 0} \\
 63 \\
 \underline{- 63} \\
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 \end{array}$$

Answer: 403 R 0

1.

$$\begin{array}{r}
 \\
 19 \overline{) 5807} \\
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 \\
 \\
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 \end{array}$$

Answer: _____ R _____

2.

$$\begin{array}{r}
 \\
 23 \overline{) 18486} \\
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 \\
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 \end{array}$$

Answer: _____ R _____

Divide. Write the remainder three ways, the fraction in simplest form.

Example

$$\begin{array}{r}
 41 \\
 24 \overline{) 990} \\
 \underline{- 96} \\
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 \underline{- 24} \\
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 \end{array}$$

After R

41 R 6

As a fraction

$$41 \frac{6}{24} = 41 \frac{1}{4}$$

As a decimal

41.25

3.

$$\begin{array}{r}
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_____ R _____

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$$\begin{array}{r}
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 52 \overline{) 3094} \\
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_____ R _____

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As a decimal

Dividing by 2 Digits

Estimate first. Then divide and decide what the remainder means.

One division, four answers: $920 \div 32 = 28 \text{ R } 24$.

Example Estimate first: $900 \div 30 = 30$. Then read each question carefully.

920 students ride buses. A bus holds **32**.
How many buses are needed?

29 buses

Round up

920 crayons are packed **32** to a box.
How many boxes are full?

28 boxes

Drop it

920 cards are dealt equally to **32**
players. How many are left over?

24 cards

Remainder

32 friends share **\$920** equally. How
much does each one get?

\$28.75 each

Share it

Estimate. Divide. Answer. Circle what you did with the remainder.

- 1. 762** people come to a banquet. A table seats **18**. How many tables are needed?

Estimate: _____ $\div$ _____ = _____

_____ $\div$ _____ = _____ R _____

Answer: _____ tables

Round up Drop it Remainder Share it

- 2. A** bakery packs **2,350** cookies, **36** to a tin. How many tins can it fill?

Estimate: _____ $\div$ _____ = _____

_____ $\div$ _____ = _____ R _____

Answer: _____ tins

Round up Drop it Remainder Share it

- 3. 1,427** sheets of paper are shared equally by **21** classes. How many are left over?

Estimate: _____ $\div$ _____ = _____

_____ $\div$ _____ = _____ R _____

Answer: _____ sheets

Round up Drop it Remainder Share it

- 4. 16** teams share **60** pizzas equally. How much pizza does each team get?

Estimate: _____ $\div$ _____ = _____

_____ $\div$ _____ = _____ R _____

Answer: _____ pizzas

Round up Drop it Remainder Share it

Dividing by 2 Digits

Use a fact you know. Then estimate with compatible numbers.

Divide. Use the fact and the pattern of zeros.

Example

$$\begin{aligned} 48 \div 6 &= \underline{8} \\ 480 \div 60 &= \underline{8} \\ 4,800 \div 60 &= \underline{80} \end{aligned}$$

1.

$$\begin{aligned} 28 \div 4 &= \underline{7} \\ 280 \div 40 &= \underline{7} \\ 2,800 \div 40 &= \underline{70} \end{aligned}$$

2.

$$\begin{aligned} 16 \div 2 &= \underline{8} \\ 160 \div 20 &= \underline{8} \\ 1,600 \div 20 &= \underline{80} \end{aligned}$$

3.

$$\begin{aligned} 30 \div 5 &= \underline{6} \\ 300 \div 50 &= \underline{6} \\ 3,000 \div 50 &= \underline{60} \end{aligned}$$

Divide. Find the basic fact first.

4. $2,400 \div 30 = \underline{80}$

5. $560 \div 70 = \underline{8}$

6. $1,200 \div 20 = \underline{60}$

7. $2,000 \div 50 = \underline{40}$

Estimate with compatible numbers. Round the divisor to the nearest ten.

Example

$$3,175 \div 42 \text{ is about } \underline{3,200} \div \underline{40} = \underline{80}$$

One way

8. $1,789 \div 19 \text{ is about } \underline{1,800} \div \underline{20} = \underline{90}$

One way

9. $4,129 \div 62 \text{ is about } \underline{4,200} \div \underline{60} = \underline{70}$

One way

10. $2,385 \div 58 \text{ is about } \underline{2,400} \div \underline{60} = \underline{40}$

One way

11. $638 \div 21 \text{ is about } \underline{600} \div \underline{20} = \underline{30}$

One way

Dividing by 2 Digits

Break the dividend into parts the divisor goes into easily.

Write each side. The last part is what is left. Add the sides.

Example

$782 \div 23$

<u>30</u>	<u>4</u>
23 $\overline{) 690}$	$\overline{) 92}$

 $782 \div 23 = \underline{34}$

1. $864 \div 18$

<u>40</u>	<u>8</u>
18 $\overline{) 720}$	$\overline{) 144}$

 $864 \div 18 = \underline{48}$

2. $3,936 \div 16$

<u>200</u>	<u>40</u>	<u>6</u>
16 $\overline{) 3,200}$	$\overline{) 640}$	$\overline{) 96}$

 $3,936 \div 16 = \underline{246}$

3. $9,288 \div 43$

<u>200</u>	<u>10</u>	<u>6</u>
43 $\overline{) 8,600}$	$\overline{) 430}$	$\overline{) 258}$

 $9,288 \div 43 = \underline{216}$

Use partial quotients. Take away 100s, then 10s, then 1s of the divisor.

Example

One way

17	$\begin{array}{r} 4375 \\ - 3400 \\ \hline 975 \\ - 850 \\ \hline 125 \\ - 119 \\ \hline 6 \end{array}$	$\begin{array}{r} 200 \\ 50 \\ 7 \\ \hline 257 \end{array}$
----	---	---

Answer: 257 R 6

4.

One way

14	$\begin{array}{r} 1946 \\ - 1400 \\ \hline 546 \\ - 420 \\ \hline 126 \\ - 126 \\ \hline 0 \end{array}$	$\begin{array}{r} 100 \\ 30 \\ 9 \\ \hline 139 \end{array}$
----	---	---

Answer: 139 R 0

5.

One way

35	$\begin{array}{r} 7853 \\ - 7000 \\ \hline 853 \\ - 700 \\ \hline 153 \\ - 140 \\ \hline 13 \end{array}$	$\begin{array}{r} 200 \\ 20 \\ 4 \\ \hline 224 \end{array}$
----	--	---

Answer: 224 R 13

Dividing by 2 Digits

Round the divisor to estimate each digit. Then check it.

Is the estimate right? Multiply to check. Then fix it.

Estimate: round the divisor. $157 \div 23$ is about $157 \div 20$, so try 7.

Too big: the product is more than the number. Try 1 less.

Too small: what is left is not less than the divisor. Try 1 more.

Example

$157 \div 23$

Try 7

$23 \times 7 = 161$

Digit: 6

Too big

Too small

Just right

1. $196 \div 28$

Try 6

$28 \times 6 = 168$

Digit: 7

Too big

Too small

Just right

2. $127 \div 32$

Try 4

$32 \times 4 = 128$

Digit: 3

Too big

Too small

Just right

3. $98 \div 21$

Try 4

$21 \times 4 = 84$

Digit: 4

Too big

Too small

Just right

4. $158 \div 19$

Try 7

$19 \times 7 = 133$

Digit: 8

Too big

Too small

Just right

5. $185 \div 22$

Try 9

$22 \times 9 = 198$

Digit: 8

Too big

Too small

Just right

Divide. Round the divisor first. Check each digit.

Example

Round 21: 20

			6	4	
21	)	1	3	5	3
		-	1	2	6
				9	3
			-	8	4
					9

21 $\times$ 6

21 $\times$ 4

Answer: 64 R 9

6.

Round 26: 30

			7	5	
26	)	1	9	6	2
		-	1	8	2
				1	4
			-	1	3
					1

26 $\times$ 7

26 $\times$ 5

Answer: 75 R 12

7.

Round 24: 20

			7	2	
24	)	1	7	4	2
		-	1	6	8
				6	2
			-	4	8
					1

24 $\times$ 7

24 $\times$ 2

Answer: 72 R 14

Dividing by 2 Digits

Bigger dividends, zeros in the quotient, remainders three ways.

Divide. When the divisor does not go in, write 0 in the quotient.

Example

$$\begin{array}{r} 403 \\ 21 \overline{) 8463} \\ \underline{- 84} \\ 6 \\ \underline{- 0} \\ 63 \\ \underline{- 63} \\ 0 \end{array}$$

Answer: 403 R 0

1.

$$\begin{array}{r} 305 \\ 19 \overline{) 5807} \\ \underline{- 57} \\ 10 \\ \underline{- 0} \\ 107 \\ \underline{- 95} \\ 12 \end{array}$$

Answer: 305 R 12

2.

$$\begin{array}{r} 803 \\ 23 \overline{) 18486} \\ \underline{- 184} \\ 8 \\ \underline{- 0} \\ 86 \\ \underline{- 69} \\ 17 \end{array}$$

Answer: 803 R 17

Divide. Write the remainder three ways, the fraction in simplest form.

Example

$$\begin{array}{r} 41 \\ 24 \overline{) 990} \\ \underline{- 96} \\ 30 \\ \underline{- 24} \\ 6 \end{array}$$

After R

41 R 6

As a fraction

$$41 \frac{6}{24} = 41 \frac{1}{4}$$

As a decimal

41.25

3.

$$\begin{array}{r} 88 \\ 15 \overline{) 1326} \\ \underline{- 120} \\ 126 \\ \underline{- 120} \\ 6 \end{array}$$

After R

88 R 6

As a fraction

$$88 \frac{6}{15} = 88 \frac{2}{5}$$

As a decimal

88.4

4.

$$\begin{array}{r} 59 \\ 52 \overline{) 3094} \\ \underline{- 260} \\ 494 \\ \underline{- 468} \\ 26 \end{array}$$

After R

59 R 26

As a fraction

$$59 \frac{26}{52} = 59 \frac{1}{2}$$

As a decimal

59.5

5.

$$\begin{array}{r} 67 \\ 12 \overline{) 813} \\ \underline{- 72} \\ 93 \\ \underline{- 84} \\ 9 \end{array}$$

After R

67 R 9

As a fraction

$$67 \frac{9}{12} = 67 \frac{3}{4}$$

As a decimal

67.75

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One division, four answers: $920 \div 32 = 28 \text{ R } 24$.

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920 students ride buses. A bus holds **32**.
How many buses are needed?

29 buses

Round up

920 crayons are packed **32** to a box.
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Drop it

920 cards are dealt equally to **32**
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24 cards

Remainder

32 friends share **\$920** equally. How
much does each one get?

\$28.75 each

Share it

Estimate. Divide. Answer. Circle what you did with the remainder.

1. **762** people come to a banquet. A table seats **18**. How many tables are needed?

Estimate: 800 $\div$ 20 = 40 One way

762 $\div$ 18 = 42 R 6

Answer: 43 tables

Round up Drop it Remainder Share it

2. A bakery packs **2,350** cookies, **36** to a tin. How many tins can it fill?

Estimate: 2,400 $\div$ 40 = 60 One way

2,350 $\div$ 36 = 65 R 10

Answer: 65 tins

Round up **Drop it** Remainder Share it

3. **1,427** sheets of paper are shared equally by **21** classes. How many are left over?

Estimate: 1,400 $\div$ 20 = 70 One way

1,427 $\div$ 21 = 67 R 20

Answer: 20 sheets

Round up Drop it **Remainder** Share it

4. **16** teams share **60** pizzas equally. How much pizza does each team get?

Estimate: 60 $\div$ 20 = 3 One way

60 $\div$ 16 = 3 R 12

Answer: $3\frac{3}{4}$ pizzas

Round up Drop it Remainder **Share it**