

Name _____

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

On the hundred chart, colour all the multiples of 3 (all the numbers you would say if you were counting by threes).

The divisor, 3, will divide evenly into each of these numbers.

What patterns do you notice? _____

Add up the digits in each number you coloured. What do you notice? _____

A number can be divided by three if the sum of its digits can be divided by three.

Use the chart to answer these questions.

1. What is the largest multiple of 3 up to 28? _____ There are _____ 3s in 28.
2. What is the largest multiple of 3 up to 17? _____ There are _____ 3s in 17.
3. What is the largest multiple of 3 up to 25? _____ There are _____ 3s in 25.
4. What is the largest multiple of 3 up to 10? _____ There are _____ 3s in 10.
5. What is the largest multiple of 3 up to 20? _____ There are _____ 3s in 20.

$3 \overline{)22}$	<p>What is the largest multiple of 3 up to 22?</p> <p style="text-align: center;">7 $3 \times 7 = 21$</p> $3 \overline{)22}$ $\underline{21}$	<p>Subtract 21 from 22.</p> <p style="text-align: center;">7</p> $3 \overline{)22}$ $\underline{21}$ <p style="text-align: center;">1 1 left over or remaining</p>	<p>7 R 1</p> $3 \overline{)22}$ $\underline{21}$ <p style="text-align: center;">1</p> <p>7 Remainder 1</p>
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Divide. Show your work and use R to show the remainder.

$$3 \overline{)17}$$

$$3 \overline{)29}$$

$$3 \overline{)11}$$

$$3 \overline{)7}$$

$$3 \overline{)9}$$

$$3 \overline{)24}$$

$$3 \overline{)15}$$

$$3 \overline{)14}$$

$$3 \overline{)18}$$

$$3 \overline{)16}$$

$$3 \overline{)26}$$

$$3 \overline{)12}$$

Name _____

Dividing Three Into Larger Numbers

Divide the tens.
Subtract the tens.

Bring down the ones.

Divide the ones.
Subtract.

$$\begin{array}{r} 2 \\ 3 \overline{)63} \\ \underline{6} \\ 0 \end{array} \quad \begin{array}{r} 2 \\ 3 \overline{)85} \\ \underline{6} \\ 2 \end{array}$$

$$\begin{array}{r} 2 \\ 3 \overline{)63} \\ \underline{6 \downarrow} \\ 03 \end{array} \quad \begin{array}{r} 2 \\ 3 \overline{)85} \\ \underline{6 \downarrow} \\ 25 \end{array}$$

$$\begin{array}{r} 21 \\ 3 \overline{)63} \\ \underline{6} \\ \rightarrow 03 \\ \underline{3} \\ 0 \end{array} \quad \begin{array}{r} 28 \text{ R } 1 \\ 3 \overline{)85} \\ \underline{6} \\ \rightarrow 25 \\ \underline{24} \\ 1 \end{array}$$

Divide.

$$3 \overline{)48} \quad 3 \overline{)95} \quad 3 \overline{)73} \quad 3 \overline{)84} \quad 3 \overline{)90} \quad 3 \overline{)62} \quad 3 \overline{)77} \quad 3 \overline{)42}$$

$$3 \overline{)97} \quad 3 \overline{)45} \quad 3 \overline{)69} \quad 3 \overline{)99} \quad 3 \overline{)52} \quad 3 \overline{)68} \quad 3 \overline{)57} \quad 3 \overline{)39}$$

$$3 \overline{)46} \quad 3 \overline{)75} \quad 3 \overline{)60} \quad 3 \overline{)98} \quad 3 \overline{)37} \quad 3 \overline{)80} \quad 3 \overline{)38} \quad 3 \overline{)36}$$

$$3 \overline{)67} \quad 3 \overline{)84} \quad 3 \overline{)77} \quad 3 \overline{)92} \quad 3 \overline{)54} \quad 3 \overline{)69} \quad 3 \overline{)46} \quad 3 \overline{)96}$$

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51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

On the hundred chart, colour all the multiples of 4 (all the numbers you would say if you were counting by fours).

The divisor, 4, will divide evenly into each of these numbers.

What patterns do you notice? _____

A number can be divided by 4 if the ones digit plus two times the tens digit can be divided by 4.

Use the chart to answer these questions.

1. What is the largest multiple of 4 up to 35? _____ There are _____ 4s in 35.
2. What is the largest multiple of 4 up to 18? _____ There are _____ 4s in 18.
3. What is the largest multiple of 4 up to 25? _____ There are _____ 4s in 25.
4. What is the largest multiple of 4 up to 11? _____ There are _____ 4s in 11.
5. What is the largest multiple of 4 up to 30? _____ There are _____ 4s in 30.
6. What is the largest multiple of 4 up to 9? _____ There are _____ 4s in 9.
7. What is the largest multiple of 4 up to 39? _____ There are _____ 4s in 39.
8. What is the largest multiple of 4 up to 22? _____ There are _____ 4s in 22.

$4 \overline{)34}$	<p>What is the largest multiple of 4 up to 34?</p> <p>8 $4 \times 8 = 32$</p> $4 \overline{)34}$ <p style="text-align: center;">32</p>	<p>Subtract 32 from 34.</p> <p>7</p> $4 \overline{)34}$ <p style="text-align: center;">32</p> <p>2 2 left over or remaining</p>	<p>8 R 2</p> $4 \overline{)34}$ <p style="text-align: center;">32</p> <p style="text-align: center;">2</p> <p>8 Remainder 2</p>
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Divide. Show your work and use R to show the remainder.

- | | | | | | |
|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| $4 \overline{)17}$ | $4 \overline{)31}$ | $4 \overline{)13}$ | $4 \overline{)23}$ | $4 \overline{)9}$ | $4 \overline{)37}$ |
| $4 \overline{)15}$ | $4 \overline{)11}$ | $4 \overline{)28}$ | $4 \overline{)16}$ | $4 \overline{)32}$ | $4 \overline{)22}$ |

Name _____

Divide.

$$4 \overline{)74} \quad 3 \overline{)65} \quad 2 \overline{)84} \quad 4 \overline{)77} \quad 3 \overline{)57} \quad 2 \overline{)36} \quad 4 \overline{)84} \quad 4 \overline{)87}$$

$$4 \overline{)93} \quad 3 \overline{)54} \quad 2 \overline{)79} \quad 4 \overline{)64} \quad 3 \overline{)47} \quad 2 \overline{)96} \quad 3 \overline{)77} \quad 4 \overline{)95}$$

$$3 \overline{)56} \quad 4 \overline{)73} \quad 2 \overline{)78} \quad 4 \overline{)62} \quad 4 \overline{)48} \quad 3 \overline{)87} \quad 2 \overline{)93} \quad 3 \overline{)54}$$

$$2 \overline{)67} \quad 4 \overline{)69} \quad 3 \overline{)82} \quad 2 \overline{)38} \quad 4 \overline{)46} \quad 2 \overline{)66} \quad 4 \overline{)58} \quad 4 \overline{)86}$$

$$2 \overline{)95} \quad 4 \overline{)60} \quad 4 \overline{)92} \quad 3 \overline{)80} \quad 4 \overline{)44} \quad 3 \overline{)95} \quad 2 \overline{)46} \quad 4 \overline{)64}$$

$$2 \overline{)45} \quad 3 \overline{)67} \quad 4 \overline{)72} \quad 3 \overline{)59} \quad 4 \overline{)79} \quad 4 \overline{)53} \quad 2 \overline{)97} \quad 3 \overline{)35}$$