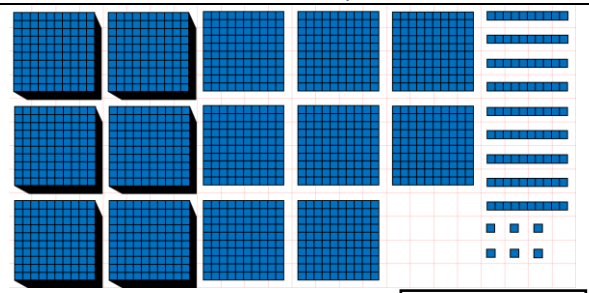


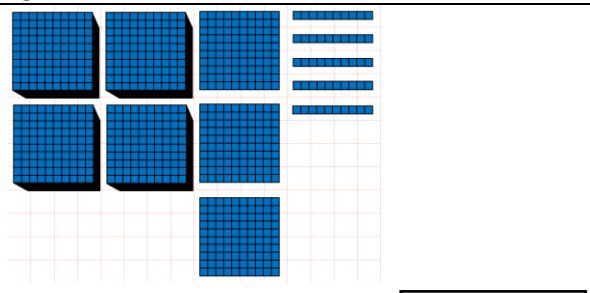
1 Recognise representations for four-digit numbers

Let's Learn

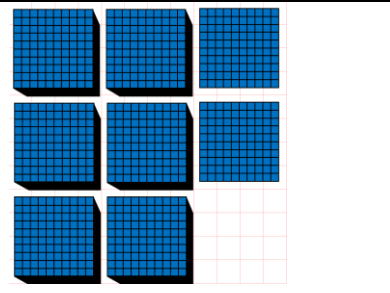
Write the numbers shown by the blocks below in digits.



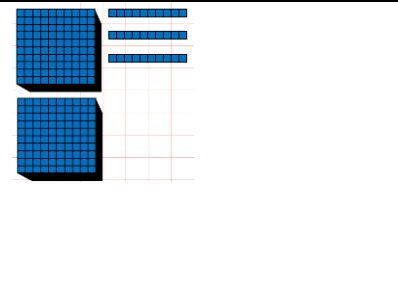
6869



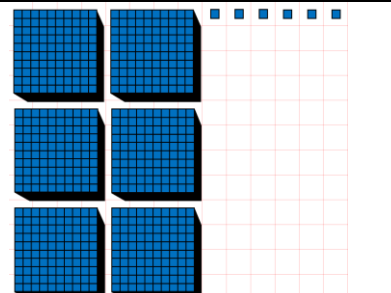
4350



6200



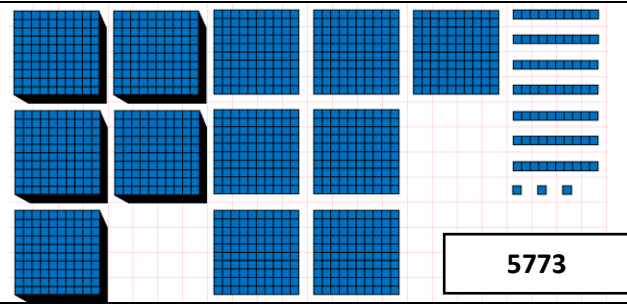
2030



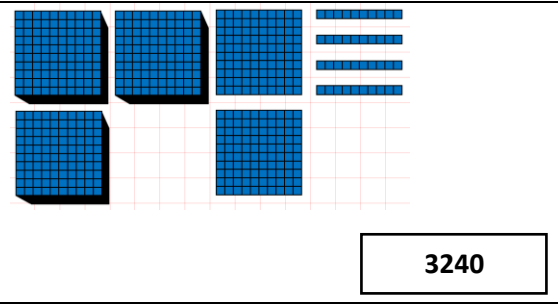
6006

Your Turn

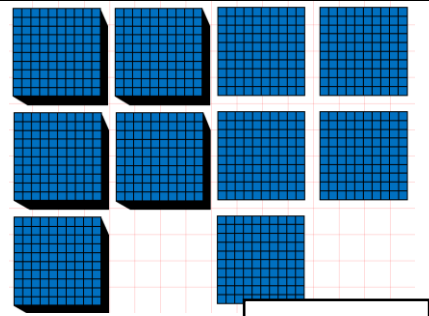
Write the numbers shown by the blocks below in digits.



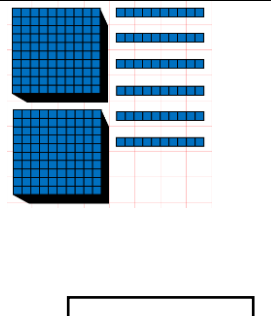
5773



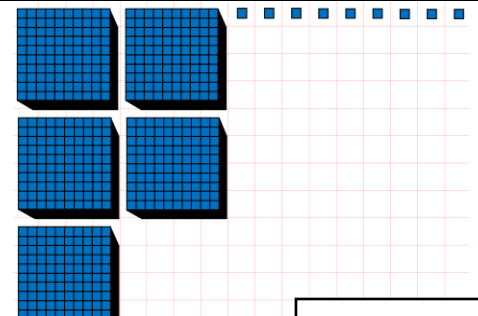
3240



5500



2060



5009



2 Write four-digit numbers in digits*Let's Learn*

Write the numbers below in digits.

Four thousand, eight hundred and twenty-five

4825

Nine thousand, two hundred

9200

Eight thousand and eighteen

8018

Five thousand and five

5005*Your Turn*

Write the numbers below in digits.

Two thousand, four hundred and eighty-seven

2487

Eight thousand, nine hundred

8900

Seven thousand and twelve

7012

Three thousand and one

3001**3 Write four-digit numbers in words***Let's Learn*

Write the numbers below in words.

1483 **One thousand, four hundred and eighty-three**3072 **Three thousand and seventy-two**3300 **Three thousand, three hundred**4002 **Four thousand and two***Your Turn*

Write the numbers below in words.

4224 **Four thousand, two hundred and twenty-four**8038 **Eight thousand and thirty-eight**9100 **Nine thousand, one hundred**5002 **Five thousand and two**

4 Identify the digit in each place value for four-digit numbers*Let's Learn*

For the questions below, write the digit in each place value.

4,593

Thousands:

4

Hundreds:

5

Tens:

9

Ones:

3

4,809

Hundreds:

8

Ones:

9

Thousands:

4

Tens:

0

3,190

Ones:

0

Hundreds:

1

Tens:

9

Thousands:

3*Your Turn*

For the questions below, write the digit in each place value.

6,923

Thousands:

6

Hundreds:

9

Tens:

2

Ones:

3

2,193

Hundreds:

1

Ones:

3

Thousands:

2

Tens:

9

4,027

Ones:

7

Hundreds:

0

Tens:

2

Thousands:

4**5 Identify the value of each digit in four-digit numbers***Let's Learn*

For the questions below, write the value of each digit.

4,529

9 represents:

9

4 represents:

4000

5 represents:

500

2 represents:

20

8,706

7 represents:

700

8 represents:

8000

6 represents:

6

8,041

1 represents:

1

4 represents:

40

8 represents:

8000*Your Turn*

For the questions below, write the value of each digit.

7,638

8 represents:

8

7 represents:

7000

6 represents:

600

3 represents:

30

8,105

1 represents:

100

8 represents:

8000

5 represents:

5

6,023

3 represents:

1

2 represents:

20

6 represents:

8000

6 Partition four-digit numbers*Let's Learn*

Partition the numbers below.

$$5371 = \boxed{5000} + \boxed{300} + \boxed{70} + \boxed{1}$$

$$1735 = \boxed{1000} + \boxed{700} + \boxed{30} + \boxed{5}$$

$$3035 = \boxed{3000} + \boxed{30} + \boxed{5}$$

$$8808 = \boxed{8000} + \boxed{800} + \boxed{8}$$

Your Turn

Partition the numbers below.

$$8253 = \boxed{8000} + \boxed{200} + \boxed{50} + \boxed{3}$$

$$2121 = \boxed{2000} + \boxed{100} + \boxed{20} + \boxed{1}$$

$$9046 = \boxed{9000} + \boxed{40} + \boxed{6}$$

$$7709 = \boxed{7000} + \boxed{700} + \boxed{9}$$

7 Compare four-digit numbers*Let's Learn*

For the questions below, write < or >

$$3528 \boxed{>} 2972 \quad 4922 \boxed{>} 4099 \quad 4722 \boxed{<} 4771 \quad 5096 \boxed{>} 5093$$

Your Turn

For the questions below, write < or >

$$2848 \boxed{<} 8248 \quad 6398 \boxed{>} 6099 \quad 3824 \boxed{>} 3818 \quad 8290 \boxed{<} 8292$$

8 Order four-digit numbers*Let's Learn*

Order each set of numbers from smallest to largest.

595, 9595, 9559, 5595, 5955

$$\boxed{595} \quad \boxed{5595} \quad \boxed{5955} \quad \boxed{9559} \quad \boxed{9595}$$

4411, 1441, 1414, 5111, 444

$$\boxed{444} \quad \boxed{1414} \quad \boxed{1441} \quad \boxed{4411} \quad \boxed{5111}$$

Your Turn

Order each set of numbers from smallest to largest.

2752, 277, 2572, 7225, 2725

$$\boxed{277} \quad \boxed{2572} \quad \boxed{2725} \quad \boxed{2752} \quad \boxed{7225}$$

533, 5333, 3535, 3553, 5353

$$\boxed{533} \quad \boxed{3535} \quad \boxed{3553} \quad \boxed{5333} \quad \boxed{5353}$$

9 Round to the nearest 1000*Let's Learn*

Round the numbers below to the nearest 1000.

2392 ≈ **2000**3971 ≈ **4000**7018 ≈ **7000**5544 ≈ **6000***Your Turn*

Round the numbers below to the nearest 1000.

5293 ≈ **5000**3288 ≈ **3000**6919 ≈ **7000**6884 ≈ **7000****10 Round to the nearest 1000, 100 and 10***Let's Learn*

Round the numbers below.

4 5 4 9

Nearest 10 ≈

4550

Nearest 100 ≈

4500

Nearest 1000 ≈

5000

2 3 8 2

Nearest 10 ≈

2380

Nearest 100 ≈

2400

Nearest 1000 ≈

2000

5 8 9 6

Nearest 10 ≈

5900

Nearest 100 ≈

5900

Nearest 1000 ≈

6000*Your Turn*

Round the numbers below.

3 6 3 7

Nearest 10 ≈

3640

Nearest 100 ≈

3600

Nearest 1000 ≈

4000

1 4 5 4

Nearest 10 ≈

1450

Nearest 100 ≈

1500

Nearest 1000 ≈

1000

4 7 9 6

Nearest 10 ≈

4800

Nearest 100 ≈

4800

Nearest 1000 ≈

5000

11 Write numbers to 100 in Roman numerals*Let's Learn*

Write the numbers below in Roman numerals.				
35 = XXXV	72 = LXXII	27 = XXVII	83 = LXXXIII	38 = XXXVIII
99 = XCIX	29 = XXIX	92 = XCII	74 = LXXIV	47 = XLVII

*Your Turn*

Write the numbers below in Roman numerals.				
26 = XXVI	63 = LXIII	36 = XXXVI	94 = XCIV	49 = XLIX
77 = LXXVII	28 = XXVIII	82 = LXXXII	54 = LIV	45 = XLV

**12 Read Roman numerals to 100***Let's Learn*

Write the numbers represented by Roman numerals below.				
IV = 4	VII = 7	XIX = 19	XXVI = 26	XXXIV = 34
XXXVII = 37	XLI = 41	XLIV = 44	XLIX = 49	LV = 55
LXIV = 64	LXXIX = 79	LXXXIII = 83	XCIV = 94	XCVIII = 98

*Your Turn*

Write the numbers represented by Roman numerals below.				
VI = 6	IX = 9	XV = 15	XXVIII = 28	XXXVI = 36
XXXVIII = 38	XLII = 42	XLV = 45	LI = 51	LIV = 54
LXIX = 69	LXXIV = 74	LXXXI = 81	XCVII = 97	XCIX = 99



1 Count on in ones from a four-digit number*Let's Learn*

For the questions below, write the next seven numbers, counting in ones.

4095, 4096, 4097,

4098**4099****4100****4101****4102****4103****4104**

2997, 2998, 2999,

3000**3001****3002****3003****3004****3005****3006***Your Turn*

For the questions below, write the next seven numbers, counting in ones.

6093, 6094, 6095,

6096**6097****6098****6099****6100****6101****6102**

4996, 4997, 4998,

4999**5000****5001****5002****5003****5004****5005****2 Add a single-digit number to a four-digit number***Let's Learn*

Complete the questions below using mental methods.

$6098 + 5 = \mathbf{6103}$

$5636 + 8 = \mathbf{5644}$

$2994 + 9 = \mathbf{3003}$

$3993 + 7 = \mathbf{4000}$

Your Turn

Complete the questions below using mental methods.

$4096 + 5 = \mathbf{4101}$

$7647 + 8 = \mathbf{7655}$

$1995 + 9 = \mathbf{2004}$

$8992 + 8 = \mathbf{9000}$

3 Count on in tens from a four-digit number*Let's Learn*

For the questions below, write the next seven numbers, counting on in tens.

5476, 5486, 5496,

5506**5516****5526****5536****5546****5556****5566**

6964, 6974, 6984,

6994**7004****7014****7024****7034****7044****7054***Your Turn*

For the questions below, write the next seven numbers, counting on in tens.

4745, 4755, 4765,

4775**4785****4795****4805****4815****4825****4835**

7342, 7352, 7362,

7372**7382****7392****7402****7412****7422****7432****4 Add a multiple of 10 to a four-digit number***Let's Learn*

Complete the questions below using mental methods.

$8054 + 50 = \mathbf{8104}$

$7383 + 40 = \mathbf{7423}$

$3979 + 50 = \mathbf{4029}$

$2996 + 70 = \mathbf{3066}$

Your Turn

Complete the questions below using mental methods.

$7050 + 60 = \mathbf{7110}$

$6288 + 40 = \mathbf{6328}$

$2985 + 50 = \mathbf{3035}$

$1998 + 70 = \mathbf{2068}$

5 Add two multiples of 100 beyond 1000*Let's Learn*

Complete the questions below using mental methods.

$900 + 300 = \mathbf{1200}$

$800 + 600 = \mathbf{1400}$

$1700 + 300 = \mathbf{2000}$

$5500 + 800 = \mathbf{6300}$

Your Turn

Complete the questions below using mental methods.

$700 + 500 = \mathbf{1200}$

$900 + 800 = \mathbf{1700}$

$2500 + 500 = \mathbf{3000}$

$4700 + 800 = \mathbf{5500}$

6 Count on in hundreds from a four-digit number*Let's Learn*

For the questions below, write the next seven numbers, counting on in hundreds.

6132, 6232, 6332,

6432**6532****6632****6732****6832****6932****7032**

4555, 4655, 4755,

4855**4955****5055****5155****5255****5355****5455***Your Turn*

For the questions below, write the next seven numbers, counting on in hundreds.

5355, 5455, 5555,

5655**5755****5855****5955****6055****6155****6255**

3520, 3620, 3720,

3820**3920****4020****4120****4220****4320****4420****7 Add a multiple of 100 to a four-digit number***Let's Learn*

Complete the questions below using mental methods.

$1244 + 500 = \mathbf{1744}$

$3539 + 500 = \mathbf{4039}$

$5381 + 800 = \mathbf{6181}$

$3855 + 800 = \mathbf{4655}$

Your Turn

Complete the questions below using mental methods.

$3333 + 500 = \mathbf{3833}$

$4830 + 500 = \mathbf{5330}$

$6655 + 800 = \mathbf{7455}$

$2999 + 700 = \mathbf{3699}$

8 Add four-digit numbers using column addition*Let's Learn*

Complete the questions below using column addition.

$2839 + 86 = \mathbf{2925}$

$2424 + 909 = \mathbf{3333}$

$856 + 567 = \mathbf{1423}$

$3867 + 2536 = \mathbf{6403}$

Your Turn

Complete the questions below using column addition.

$5976 + 68 = \mathbf{6044}$

$5555 + 918 = \mathbf{6473}$

$769 + 652 = \mathbf{1421}$

$4844 + 4188 = \mathbf{9032}$

1 Count back in ones from a four-digit number*Let's Learn*

For the questions below, write the next seven numbers, counting back in ones.

2106, 2105, 2104, **2103** **2102** **2101** **2100** **2099** **2098** **2097**4003, 4002, 4001, **4000** **3999** **3998** **3997** **3996** **3995** **3994***Your Turn*

For the questions below, write the next seven numbers, counting back in ones.

3105, 3104, 3103, **3102** **3101** **3100** **3099** **3098** **3097** **3096**2006, 2005, 2004, **2003** **2002** **2001** **2000** **1999** **1998** **1997****2 Subtract a single-digit number from a four-digit number***Let's Learn*

Complete the questions below using mental methods.

 $7342 - 8 = \mathbf{7334}$ $4103 - 4 = \mathbf{4099}$ $2000 - 6 = \mathbf{1994}$ $3003 - 8 = \mathbf{2995}$ *Your Turn*

Complete the questions below using mental methods.

 $5554 - 8 = \mathbf{5546}$ $6101 - 5 = \mathbf{6096}$ $3000 - 7 = \mathbf{2993}$ $4004 - 9 = \mathbf{3995}$ **3 Count back in tens from a four-digit number***Let's Learn*

For the questions below, write the next seven numbers, counting back in tens.

6143, 6133, 6123, **6113** **6103** **6093** **6083** **6073** **6063** **6053**7055, 7045, 7035, **7025** **7015** **7005** **6995** **6985** **6975** **6965***Your Turn*

For the questions below, write the next seven numbers, counting back in tens.

5465, 5455, 5445, **5435** **5425** **5415** **5405** **5395** **5385** **5375**6044, 6034, 6024, **6014** **6004** **5994** **5984** **5974** **5964** **5954****4 Subtract a multiple of 10 from a four-digit number***Let's Learn*

Complete the questions below using mental methods.

 $2465 - 50 = \mathbf{2415}$ $3723 - 40 = \mathbf{3682}$ $4006 - 60 = \mathbf{3946}$ $7043 - 80 = \mathbf{6963}$ *Your Turn*

Complete the questions below using mental methods.

 $3595 - 50 = \mathbf{3545}$ $2312 - 40 = \mathbf{2272}$ $7005 - 70 = \mathbf{6935}$ $1044 - 80 = \mathbf{964}$

5 Subtract a multiple of 100 from a four-digit multiple of 100*Let's Learn*

$8700 - 600 = \mathbf{8100}$	$1400 - 600 = \mathbf{800}$	$5500 - 800 = \mathbf{4700}$	$6200 - 900 = \mathbf{5300}$
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*Your Turn*

$5500 - 400 = \mathbf{5100}$	$1700 - 900 = \mathbf{800}$	$2300 - 700 = \mathbf{1600}$	$7300 - 800 = \mathbf{6500}$
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**6 Count back in hundreds from a four-digit number***Let's Learn*

For the questions below, write the next seven numbers, counting back in hundreds.

1862, 1762, 1662,	1562	1492	1362	1262	1162	1062	962
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5565, 5465, 5365,	5265	5165	5065	4965	4865	4765	4665
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Your Turn

For the questions below, write the next seven numbers, counting back in hundreds.

1766, 1666, 1566,	1466	1366	1266	1166	1066	966	866
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6466, 6366, 6266,	6166	6066	5966	5866	5766	5666	5566
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7 Subtract a multiple of 100 from a four-digit number*Let's Learn*

$1202 - 300 = \mathbf{902}$	$4488 - 400 = \mathbf{4088}$	$5380 - 800 = \mathbf{4580}$	$7525 - 900 = \mathbf{6625}$
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*Your Turn*

$1303 - 500 = \mathbf{803}$	$2660 - 600 = \mathbf{2060}$	$6222 - 700 = \mathbf{5522}$	$7330 - 900 = \mathbf{6430}$
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**8 Add and subtract a multiple of 1000 from a four-digit number***Let's Learn*

$3924 + 3000 = \mathbf{6924}$	$4905 + 2000 = \mathbf{6905}$	$2593 - 2000 = \mathbf{593}$	$5999 - 3000 = \mathbf{2999}$
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*Your Turn*

$2749 + 6000 = \mathbf{8749}$	$4959 + 3000 = \mathbf{7959}$	$6440 - 6000 = \mathbf{440}$	$9437 - 4000 = \mathbf{5437}$
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**9 Subtract mentally by finding the difference, targeting the ten, hundred or thousand***Let's Learn*

Complete the questions below by finding the difference, targeting the ten, hundred or thousand.

$2006 - 1893 = \mathbf{113}$	$4000 - 3775 = \mathbf{225}$	$4007 - 3950 = \mathbf{57}$	$3100 - 2968 = \mathbf{132}$
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*Your Turn*

Complete the questions below by finding the difference, targeting the ten, hundred or thousand.

$3006 - 2797 = \mathbf{209}$	$5000 - 4546 = \mathbf{454}$	$3004 - 2970 = \mathbf{34}$	$5200 - 4958 = \mathbf{242}$
------------------------------	------------------------------	-----------------------------	------------------------------



10 Subtract four-digit numbers using column subtraction*Let's Learn*

Complete the questions below using column subtraction.

$5421 - 55 = \mathbf{5366}$

$5815 - 746 = \mathbf{5069}$

$4342 - 2352 = \mathbf{1990}$

$4342 - 3444 = \mathbf{898}$

Your Turn

Complete the questions below using column subtraction.

$6558 - 69 = \mathbf{6489}$

$3312 - 158 = \mathbf{3154}$

$8266 - 1491 = \mathbf{6775}$

$6520 - 5558 = \mathbf{962}$

11 Exchange across zero to subtract four-digit numbers using column subtraction*Let's Learn*

$5006 - 55 = \mathbf{4951}$

$4002 - 533 = \mathbf{3469}$

$7008 - 3933 = \mathbf{3075}$

$4000 - 2436 = \mathbf{1564}$

Your Turn

$8008 - 66 = \mathbf{7942}$

$5004 - 885 = \mathbf{4119}$

$6006 - 4374 = \mathbf{1632}$

$7000 - 4727 = \mathbf{2273}$

12 Check answers using the inverse operation with four-digit numbers*Let's Learn*

Check the answers to these calculations by using the inverse operation.

$3952 + 1064 = 5016$

$\mathbf{5016 - 1064 = 3952}$ or $\mathbf{5016 - 3952 = 1064}$

$7433 - 2488 = 4945$

$\mathbf{4945 + 2488 = 7433}$ or $\mathbf{2488 + 4945 = 7433}$

Your Turn

Check the answers to these calculations by using the inverse operation.

$2794 + 1254 = 4048$

$\mathbf{4048 - 1254 = 2794}$ or $\mathbf{4048 - 2794 = 1254}$

$8102 - 3456 = 4646$

$\mathbf{4646 + 3456 = 8102}$ or $\mathbf{3456 + 4646 = 8102}$

13 Solve missing number problems for addition and subtraction with four-digit numbers*Let's Learn*

Complete the questions below by finding the missing numbers.

$\mathbf{8010} = 4503 + 3507$

$\mathbf{4505} + 3803 = 8313$

$7309 - \mathbf{3654} = 3655$

$\mathbf{7190} - 2646 = 4544$

Your Turn

Complete the questions below by finding the missing numbers.

$\mathbf{8880} = 4965 + 3915$

$\mathbf{4837} + 4535 = 9372$

$7528 - \mathbf{4834} = 2694$

$\mathbf{5466} - 2638 = 2828$

1 Multiply by 6*Let's Learn*

$1 \times 6 = 6$	$5 \times 6 = 30$	$8 \times 6 = 48$	$12 \times 6 = 72$
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**2 Connect the 3 and 6 times tables***Let's Learn*

4 $\times 6 = 8 \times 3$	3 $\times 6 = 6 \times 3$	2 $\times 3 = 1 \times 6$
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**3 Multiply by 7***Let's Learn*

$3 \times 7 = 21$	$6 \times 7 = 42$	$8 \times 7 = 56$	$10 \times 7 = 70$
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**4 Multiply by 9***Let's Learn*

$1 \times 9 = 9$	$5 \times 9 = 45$	$9 \times 9 = 81$	$11 \times 9 = 99$
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**5 Multiply by 11***Let's Learn*

$1 \times 11 = 11$	$4 \times 11 = 44$	$8 \times 11 = 88$	$12 \times 11 = 132$
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**6 Multiply by 12**

$1 \times 12 = 12$	$4 \times 12 = 48$	$8 \times 12 = 96$	$12 \times 12 = 144$
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**7 Multiply by a multiple of 10 with knowledge of the 6, 7, 9, 11 and 12 times tables***Let's Learn*

$3 \times 60 = 180$	$90 \times 7 = 630$	$9 \times 70 = 630$
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*Your Turn*

$7 \times 60 = 420$	$80 \times 9 = 720$	$9 \times 80 = 720$
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**8 Multiply by a two-digit number using the grid method using knowledge of the 6, 7 and 9 times tables***Let's Learn*

Answer the questions below using the grid method.	
$4 \times 66 = 264$	$79 \times 6 = 474$

*Your Turn*

Answer the questions below using the grid method.	
$9 \times 28 = 252$	$67 \times 7 = 469$

**9 Multiply by a two-digit number using the expanded column method using knowledge of the 6, 7 and 9 times tables***Let's Learn*

Answer the questions below using the expanded column method.		
$63 \times 7 = 441$	$76 \times 9 = 684$	$89 \times 6 = 534$

*Your Turn*

Answer the questions below using the expanded column method.		
$57 \times 7 = 399$	$75 \times 8 = 600$	$68 \times 9 = 612$



10 Multiply by a two-digit number using the column method using knowledge of the 6, 7 and 9 times tables*Let's Learn*

Answer the questions below using the column method.

$52 \times 6 = 432$

$28 \times 9 = 252$

$7 \times 76 = 532$

Your Turn

Answer the questions below using the column method.

$56 \times 6 = 336$

$82 \times 9 = 738$

$7 \times 39 = 273$

11 Multiply three-numbers together*Let's Learn*

$3 \times 8 \times 9 = 216$

$8 \times 6 \times 5 = 240$

$6 \times 7 \times 5 = 210$

Your Turn

$4 \times 7 \times 9 = 252$

$4 \times 9 \times 5 = 180$

$8 \times 7 \times 5 = 280$

12 Multiply a single-digit number by 100*Let's Learn*

$3 \times 100 = 300$

$100 \times 5 = 500$

$8 \times 100 = 800$

Your Turn

$2 \times 100 = 200$

$100 \times 6 = 600$

$7 \times 100 = 700$

13 Multiply a single-digit number by a multiple of 100*Let's Learn*

$3 \times 300 = 900$

$500 \times 5 = 2500$

$8 \times 800 = 6400$

Your Turn

$2 \times 400 = 800$

$700 \times 7 = 4900$

$9 \times 800 = 7200$

14 Multiply by a three-digit number using the grid method*Let's Learn*

Answer the questions below using the grid method.

$5 \times 123 = 615$

$234 \times 4 = 936$

Your Turn

Answer the questions below using the grid method.

$5 \times 147 = 735$

$389 \times 3 = 1167$

$7 \times 229 = 1603$

$476 \times 9 = 4284$

15 Multiply by a three-digit number using the expanded column method*Let's Learn*

Answer the questions below using the expanded column method.

$353 \times 2 = 706$

$457 \times 5 = 2285$

$293 \times 7 = 2051$

Your Turn

Answer the questions below using the expanded column method.

$564 \times 2 = 1128$

$929 \times 5 = 4645$

$297 \times 6 = 1782$

16 Multiply by a three-digit number using the column method*Let's Learn*

Answer the questions below using the column method.

$167 \times 4 = 668$

$879 \times 3 = 2637$

$4 \times 867 = 3468$

Your Turn

Answer the questions below using the column method.

$157 \times 5 = 785$

$976 \times 4 = 3904$

$8 \times 817 = 6536$

1 Divide by 2, 3, 4, 5, 8 and 10 with remainders*Let's Learn*

$11 \div 4 = 2r3$	$18 \div 5 = 3r3$	$15 \div 2 = 7r1$
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**2 Divide by 6***Let's Learn*

$12 \div 6 = 2$	$30 \div 6 = 5$	$42 \div 6 = 7$	$66 \div 6 = 11$
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**3 Divide by 7***Let's Learn*

$7 \div 7 = 1$	$28 \div 7 = 4$	$49 \div 7 = 7$	$84 \div 7 = 12$
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**4 Divide by 9***Let's Learn*

$18 \div 9 = 2$	$45 \div 9 = 5$	$81 \div 9 = 9$	$90 \div 9 = 10$
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**5 Divide by 11***Let's Learn*

$11 \div 11 = 1$	$44 \div 11 = 4$	$99 \div 11 = 9$	$121 \div 11 = 11$
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**6 Divide by 12***Let's Learn*

$12 \div 12 = 1$	$72 \div 12 = 6$	$84 \div 12 = 7$	$120 \div 12 = 10$
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**7 Solve missing number problems for multiplication and division with knowledge of the 6, 7, 9, 11 and 12 times tables***Let's Learn*

$\boxed{36} = 6 \times 6$	$\boxed{7} = 63 \div 9$	$7 \times \boxed{6} = 42$
$\boxed{9} \times 12 = 108$	$\boxed{99} \div 11 = 9$	$56 \div \boxed{8} = 7$

**8 Divide with remainders***Let's Learn*

$20 \div 6 = 3r2$	$24 \div 7 = 3r3$	$64 \div 9 = 7r1$
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**9 Divide a multiple of 10 by a single-digit number mentally using knowledge of the 6, 7 and 9 times tables***Let's Learn*

$420 \div 7 = 60$	$360 \div 6 = 60$	$720 \div 9 = 80$
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*Your Turn*

$280 \div 7 = 40$	$560 \div 8 = 70$	$630 \div 9 = 70$
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**10 Divide a multiple of 100 by a single-digit number mentally***Let's Learn*

$600 \div 2 = 300$	$3500 \div 5 = 700$	$2700 \div 3 = 900$
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*Your Turn*

$800 \div 2 = 400$	$3600 \div 6 = 600$	$4500 \div 9 = 500$
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**11 Divide a three-digit number by a single-digit number using long division***Let's Learn*

Answer the questions below using long division.		
$486 \div 3 = 162$	$581 \div 7 = 83$	$592 \div 8 = 74$



Your Turn

Answer the questions below using long division.

$588 \div 2 = 294$

$498 \div 6 = 83$

$651 \div 7 = 93$

**12 Divide a three-digit number by a single-digit number using short division***Let's Learn*

Now answer the questions above using short division.

*Your Turn*

Now answer the questions above using short division.

**13 Solve missing number multiplication problems***Let's Learn***984**

$= 164 \times 6$

$3 \times$

174

$= 522$

56

$\times 9 = 504$

*Your Turn***763**

$= 109 \times 7$

$6 \times$

122

$= 732$

75

$\times 7 = 525$

**14 Solve missing number division problems***Let's Learn***298**

$= 596 \div 2$

$632 \div$

79

$= 8$

2736

$\div 9 = 304$

*Your Turn***197**

$= 591 \div 3$

$276 \div$

46

$= 6$

4249

$\div 7 = 607$

**15 Divide by chunking with remainders***Let's Learn*

Answer the questions below by chunking.

$69 \div 2 = 34 \text{ r}1$

$124 \div 3 = 41 \text{ r}1$

$135 \div 4 = 33 \text{ r}3$

*Your Turn*

Answer the questions below by chunking.

$97 \div 3 = 32 \text{ r}1$

$250 \div 6 = 41 \text{ r}4$

$195 \div 8 = 24 \text{ r}3$

**16 Divide using long division with remainders***Let's Learn*

Now answer the questions above using long division.

*Your Turn*

Now answer the questions above using long division.

**17 Divide using short division with remainders***Let's Learn*

Now answer the questions above using short division.

*Your Turn*

Now answer the questions above using long division.



1 Recognise pairs of fractions that add up to 1

Let's Learn

$\frac{1}{5} + \frac{4}{5} = 1$	$\frac{5}{8} + \frac{3}{8} = 1$	$\frac{4}{7} + \frac{3}{7} = 1$	$\frac{2}{3} + \frac{1}{3} = 1$
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Your Turn

$\frac{1}{3} + \frac{2}{3} = 1$	$\frac{1}{8} + \frac{7}{8} = 1$	$\frac{5}{6} + \frac{1}{6} = 1$	$\frac{2}{5} + \frac{3}{5} = 1$
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2 Count up in halves, thirds and quarters beyond 1

Let's Learn

For each diagram, write the equivalent mixed number or improper fraction shown.



Your Turn

For each diagram, write the equivalent mixed number or improper fraction shown.



3 Identify equivalent fractions to a half*Let's Learn*

$$\frac{1}{2} = \frac{\boxed{2}}{4} = \frac{\boxed{3}}{6} = \frac{\boxed{4}}{8} = \frac{\boxed{5}}{10} = \frac{\boxed{6}}{12}$$

**4 Use multiplication to find equivalent fractions***Let's Learn*

$$\frac{1}{3} = \frac{\boxed{3}}{9} \quad \frac{3}{5} = \frac{\boxed{6}}{10} \quad \frac{2}{5} = \frac{\boxed{8}}{20} \quad \frac{2}{3} = \frac{\boxed{8}}{12} \quad \frac{3}{4} = \frac{\boxed{9}}{12}$$

*Your Turn*

$$\frac{1}{4} = \frac{\boxed{2}}{8} \quad \frac{2}{5} = \frac{\boxed{6}}{15} \quad \frac{2}{3} = \frac{\boxed{12}}{18} \quad \frac{2}{7} = \frac{\boxed{6}}{21} \quad \frac{2}{9} = \frac{\boxed{8}}{36}$$

**5 Use division to find equivalent fractions***Let's Learn*

$$\frac{6}{9} = \frac{\boxed{2}}{3} \quad \frac{4}{12} = \frac{\boxed{1}}{3} \quad \frac{20}{24} = \frac{\boxed{5}}{6} \quad \frac{6}{15} = \frac{\boxed{2}}{5} \quad \frac{10}{20} = \frac{\boxed{1}}{2}$$

*Your Turn*

$$\frac{6}{8} = \frac{\boxed{3}}{4} \quad \frac{4}{20} = \frac{\boxed{1}}{5} \quad \frac{16}{28} = \frac{\boxed{4}}{7} \quad \frac{10}{15} = \frac{\boxed{2}}{3} \quad \frac{9}{27} = \frac{\boxed{1}}{3}$$

**6 Find a non-unit fraction of a number***Let's Learn*

$$\frac{2}{5} \text{ of } 30 = \mathbf{12} \quad \frac{5}{6} \text{ of } 24 = \mathbf{20} \quad \frac{3}{8} \text{ of } 24 = \mathbf{9}$$

*Your Turn*

$$\frac{3}{5} \text{ of } 45 = \mathbf{27} \quad \frac{4}{5} \text{ of } 35 = \mathbf{28} \quad \frac{5}{8} \text{ of } 32 = \mathbf{20}$$

**7 Find a whole quantity give the quantity represented by a non-unit fraction***Let's Learn*

$$\frac{2}{5} \text{ of } \boxed{25} = 10 \quad \frac{5}{6} \text{ of } \boxed{18} = 15 \quad \frac{3}{5} \text{ of } \boxed{25} = 15$$

*Your Turn*

$$\frac{3}{5} \text{ of } \boxed{25} = 15 \quad \frac{3}{4} \text{ of } \boxed{36} = 27 \quad \frac{3}{7} \text{ of } \boxed{49} = 21$$



1 Recognise tenths and hundredths*Let's Learn*

Answer as a decimal.

$1 \div 10 = \mathbf{0.1}$

$1 \div 100 = \mathbf{0.01}$

$0.1 \div 10 = \mathbf{0.01}$

**2 Convert between fractional and decimal tenths and hundredths***Let's Learn*

$0.9 = \frac{\mathbf{90}}{100}$

$0.4 = \frac{\mathbf{40}}{100}$

$0.02 = \frac{\mathbf{2}}{100}$

$0.09 = \frac{\mathbf{9}}{100}$

$0.12 = \frac{\mathbf{12}}{100}$

$0.99 = \frac{\mathbf{99}}{100}$

*Your Turn*

$0.8 = \frac{\mathbf{80}}{100}$

$0.1 = \frac{\mathbf{10}}{100}$

$0.03 = \frac{\mathbf{3}}{100}$

$0.08 = \frac{\mathbf{8}}{100}$

$0.38 = \frac{\mathbf{38}}{100}$

$0.44 = \frac{\mathbf{44}}{100}$

**3 Recognise equivalent fractions with tenths and hundredths***Let's Learn*

Write the equivalent number of tenths and in decimal form.

$\frac{20}{100} = \frac{\mathbf{2}}{10} = \mathbf{0.2}$

$\frac{60}{100} = \frac{\mathbf{6}}{10} = \mathbf{0.6}$

*Your Turn*

Write the equivalent number of tenths and in decimal form.

$\frac{30}{100} = \frac{\mathbf{3}}{10} = \mathbf{0.3}$

$\frac{90}{100} = \frac{\mathbf{9}}{10} = \mathbf{0.9}$

**4 Partition decimals into tenths and hundredths***Let's Learn*

Partition each decimal into tenths and hundredths.

$0.47 = \mathbf{0.4} + \mathbf{0.07}$

$0.61 = \mathbf{0.6} + \mathbf{0.01}$

*Your Turn*

Partition each decimal into tenths and hundredths.

$0.15 = \mathbf{0.1} + \mathbf{0.05}$

$0.51 = \mathbf{0.5} + \mathbf{0.01}$

**5 Add tenths and hundredths in decimal form***Let's Learn*

$0.2 + 0.02 = \mathbf{0.22}$

$0.5 + 0.06 = \mathbf{0.56}$

*Your Turn*

$0.7 + 0.05 = \mathbf{0.75}$

$0.3 + 0.08 = \mathbf{0.38}$

**6 Subtract tenths and hundredths in decimal form***Let's Learn*

$0.2 - 0.02 = \mathbf{0.18}$

$0.5 - 0.06 = \mathbf{0.44}$

$0.45 - 0.3 = \mathbf{0.15}$

$0.58 - 0.5 = \mathbf{0.08}$

*Your Turn*

$0.6 - 0.04 = \mathbf{0.56}$

$0.9 - 0.01 = \mathbf{0.89}$

$0.77 - 0.4 = \mathbf{0.37}$

$0.44 - 0.4 = \mathbf{0.04}$



7 Count on in tenths or hundredths*Let's Learn*

For the questions below, write the next seven numbers, counting in tenths or hundredths.

0.62, 0.63, 0.64,	0.65	0.66	0.67	0.68	0.69	0.7	0.71
0.05, 0.15, 0.25,	0.35	0.45	0.55	0.65	0.75	0.85	0.95
0.94, 0.95, 0.96,	0.97	0.98	0.99	1	1.01	1.02	1.03
0.49, 0.59, 0.69,	0.79	0.89	0.99	1.09	1.19	1.29	1.39
3.47, 3.48, 3.49,	3.5	3.51	3.52	3.53	3.54	3.55	3.56
2.61, 2.71, 2.81,	2.91	3.01	3.11	3.21	3.31	3.41	3.51

Your Turn

For the questions below, write the next seven numbers, counting in tenths or hundredths.

0.73, 0.74, 0.75,	0.76	0.77	0.78	0.79	0.8	0.81	0.82
0.02, 0.12, 0.22,	0.32	0.42	0.52	0.62	0.72	0.82	0.92
0.97, 0.98, 0.99,	1	1.01	1.02	1.03	1.04	1.05	1.06
0.37, 0.47, 0.57,	0.67	0.77	0.87	0.97	1.07	1.17	1.27
3.95, 3.96, 3.97,	3.98	3.99	4	4.01	4.02	4.03	4.04
2.45, 2.55, 2.65,	2.75	2.85	2.95	3.05	3.15	3.25	3.35

8 Count back in tenths or hundredths*Let's Learn*

For the questions below, write the next seven numbers, counting back in tenths or hundredths.

0.16, 0.15, 0.14,	0.13	0.12	0.11	0.1	0.09	0.08	0.07
1.05, 1.04, 1.03,	1.02	1.01	1	0.99	0.98	0.97	0.96
3.25, 3.24, 3.23,	3.22	3.21	3.2	3.19	3.18	3.17	3.16
3.25, 3.15, 3.05,	2.95	2.85	2.75	2.65	2.55	2.45	2.35

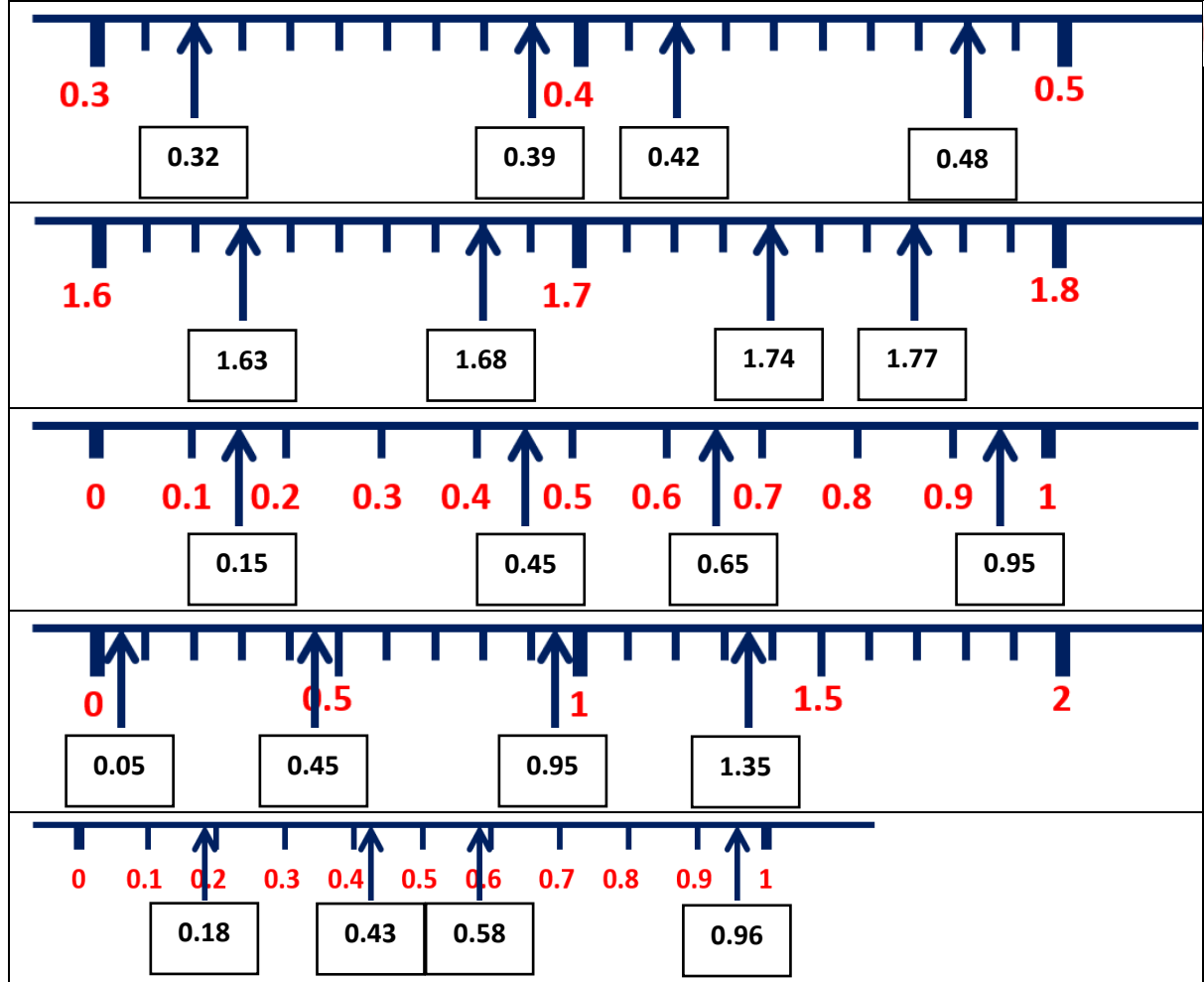
Your Turn

For the questions below, write the next seven numbers, counting back in tenths or hundredths.

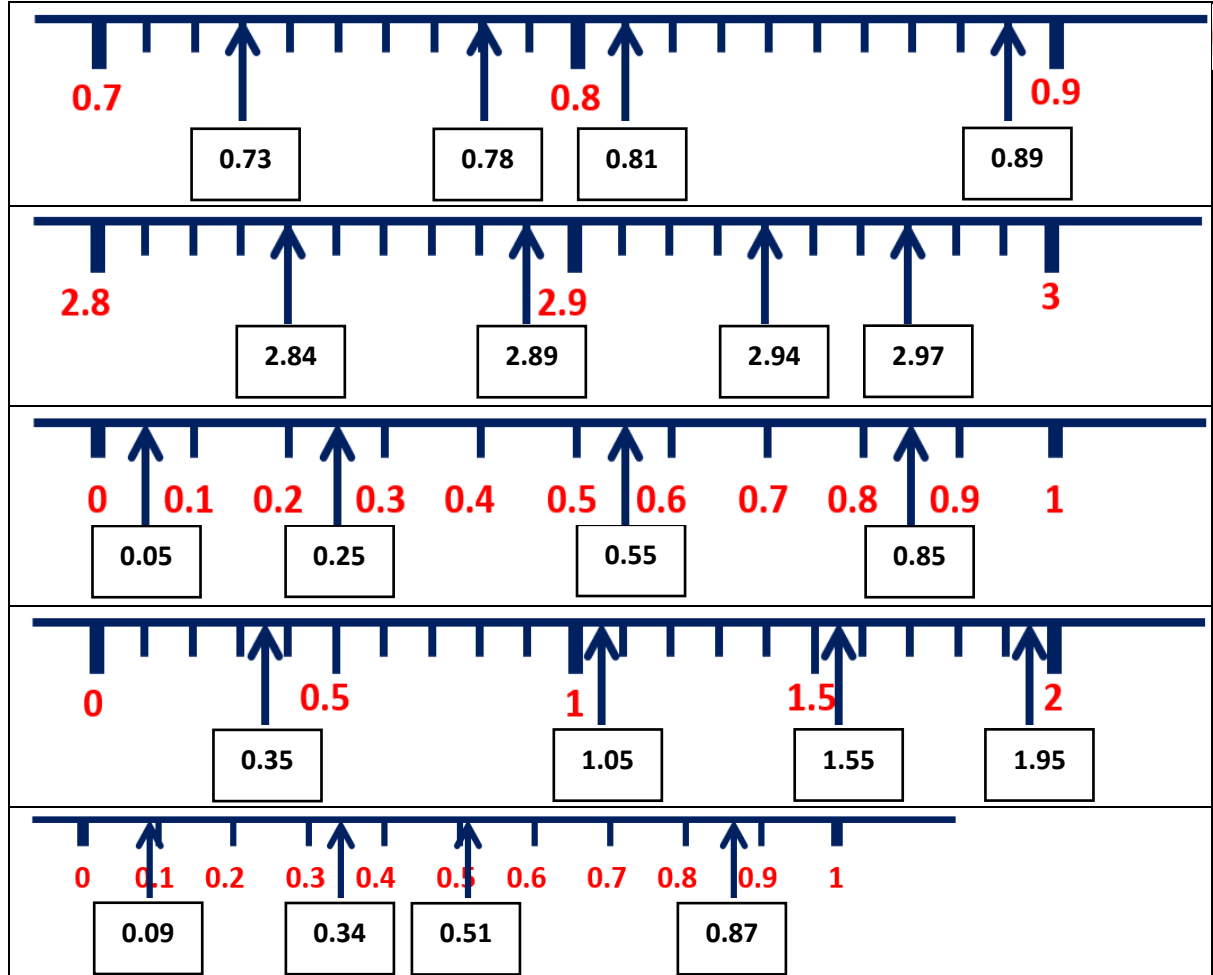
0.24, 0.23, 0.22,	0.21	0.2	0.19	0.18	0.17	0.16	0.15
2.07, 2.06, 2.05,	2.04	2.03	2.02	2.01	2	1.99	1.98
5.55, 5.54, 5.53,	5.52	5.51	5.5	5.49	5.48	5.47	5.46
3.66, 3.56, 3.46,	3.36	3.26	3.16	3.06	2.96	2.86	2.76

9 Locate tenths and hundredths on a number line

Let's Learn



Your Turn



10 Compare numbers with tenths or hundredths*Let's Learn*

Write > or < in each box.

0.2 < 0.33

0.9 < 0.99

0.5 > 0.45

0.55 < 0.7

7.65 < 7.69

4.71 > 4.69

6.01 > 5.99

5.45 < 5.5

Your Turn

Write > or < in each box.

0.5 < 0.54

0.7 > 0.56

0.8 < 0.91

0.75 > 0.6

7.05 < 7.44

5.72 > 4.73

6.1 > 6.09

5.79 < 5.9

11 Add numbers with one or two decimal places*Let's Learn*

$6.1 + 2.35 = 8.45$

$5.3 + 1.95 = 7.25$

$56.38 + 24.7 = 81.01$

Your Turn

$6.9 + 6.15 = 13.05$

$16.3 + 1.87 = 18.17$

$48.26 + 12.8 = 61.06$

12 Subtract numbers with one or two decimal places*Let's Learn*

$31.8 - 6.45 = 25.35$

$26.8 - 6.12 = 20.68$

$125.48 - 72.3 = 53.18$

Your Turn

$52.4 - 6.67 = 45.73$

$39.1 - 6.09 = 33.01$

$118.72 - 91.3 = 27.42$

13 Subtract numbers with one or two decimal places from whole numbers*Let's Learn*

$5 - 1.35 = 3.65$

$8 - 4.65 = 3.35$

$11 - 4.01 = 6.99$

Your Turn

$4 - 1.15 = 2.85$

$7 - 2.25 = 4.75$

$12 - 6.01 = 5.99$

14 Multiply numbers with hundredths by 10*Let's Learn*

$5 \times 10 = 50$

$0.5 \times 10 = 5$

$0.05 \times 10 = 0.5$

$0.09 \times 10 = 0.9$

$0.43 \times 10 = 4.3$

$4.03 \times 10 = 40.3$

Your Turn

$6 \times 10 = 60$

$0.6 \times 10 = 6$

$0.06 \times 10 = 0.6$

$0.07 \times 10 = 0.7$

$0.67 \times 10 = 6.7$

$6.07 \times 10 = 60.7$

15 Divide one-, two- or three-digit numbers by 100*Let's Learn*

$4 \div 100 = \mathbf{0.04}$	$40 \div 100 = \mathbf{0.4}$	$67 \div 100 = \mathbf{0.67}$
$400 \div 100 = \mathbf{4}$	$399 \div 100 = \mathbf{3.99}$	$401 \div 100 = \mathbf{4.01}$

*Your Turn*

$2 \div 100 = \mathbf{0.02}$	$30 \div 100 = \mathbf{0.3}$	$32 \div 100 = \mathbf{0.32}$
$300 \div 100 = \mathbf{3}$	$302 \div 100 = \mathbf{3.02}$	$332 \div 100 = \mathbf{3.32}$

**16 Multiply decimals by 100***Let's Learn*

$0.5 \times 100 = \mathbf{50}$	$0.04 \times 100 = \mathbf{4}$	$0.54 \times 100 = \mathbf{54}$
$5.4 \times 100 = \mathbf{540}$	$5.04 \times 100 = \mathbf{504}$	$50.4 \times 100 = \mathbf{5040}$

*Your Turn*

$0.8 \times 100 = \mathbf{80}$	$0.06 \times 100 = \mathbf{6}$	$0.86 \times 100 = \mathbf{86}$
$6.8 \times 100 = \mathbf{680}$	$8.06 \times 100 = \mathbf{806}$	$80.6 \times 100 = \mathbf{8060}$

**17 Solve missing number problems for multiplication and division of decimals by 10 or 100***Let's Learn*

$8.3 \times \boxed{100} = 830$	$0.08 \times \boxed{10} = 0.8$	$0.83 \times \boxed{100} = 83$
$8.3 \div \boxed{10} = 0.83$	$83 \div \boxed{10} = 8.3$	$83 \div \boxed{100} = 0.83$

*Your Turn*

$6.5 \times \boxed{10} = 65$	$0.65 \times \boxed{10} = 6.5$	$0.6 \times \boxed{100} = 60$
$6 \div \boxed{100} = 0.06$	$65 \div \boxed{100} = 0.65$	$60.5 \div \boxed{10} = 6.05$

