

STUDY TIME

Grade **3**



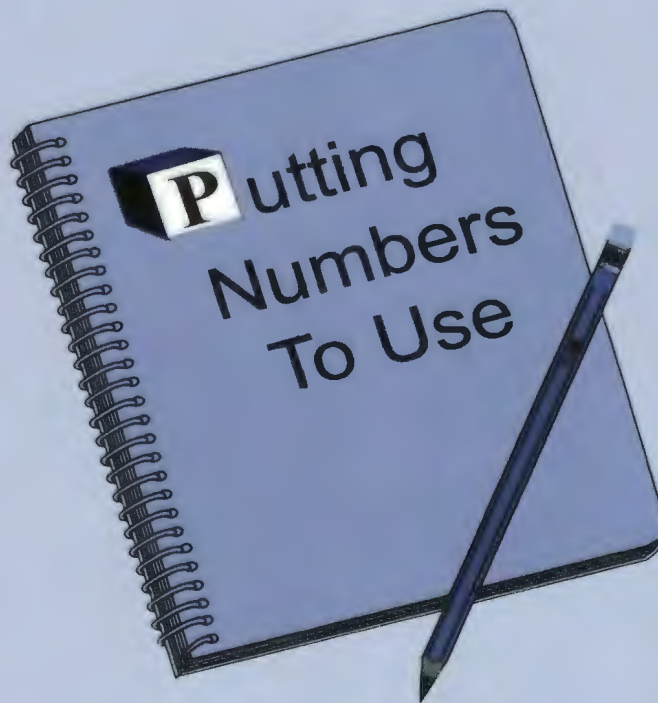
ARITHMETIC



$$\begin{array}{r} 32 \\ 2430 \\ \times \quad 9 \\ \hline 21,870 \end{array}$$



$$\frac{1}{10} \text{ of } 90 = \underline{9}$$



$$\begin{array}{r} 111 \\ 3486 \\ +5695 \\ \hline 9181 \end{array}$$

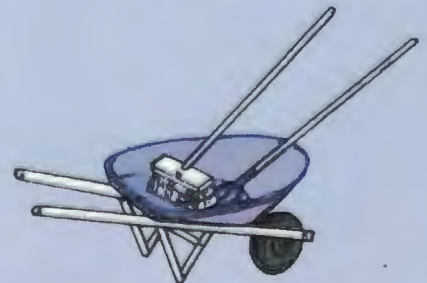


$$\begin{array}{r} 7991 \\ 8005 \\ -6897 \\ \hline 1108 \end{array}$$

$$1 \text{ tbsp.} = \underline{3} \text{ tsp.}$$



$$\begin{array}{r} 8, R6 \\ 7 \overline{)62} \\ \underline{56} \\ 6 \end{array}$$



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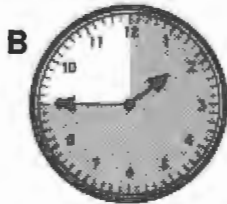
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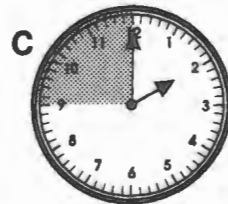
QUARTER TILL



A
1:30
half past 1



B
1:45
quarter till 2



C
2:00
two o'clock

Clock A shows half past 1, or 1:30, because the minute hand has moved 30 minutes past one o'clock.

On clock B the minute hand has moved 45 minutes past 1:00 so the time is 1:45. Notice that the hour hand is nearly to the 2.

We can also say the time on clock B is quarter till 2 because in another one fourth, or quarter hour, the time will be 2:00, as shown on clock C.

1. Fill in the times for these clocks.



_____ : _____
five o'clock



_____ : _____ past 5



_____ : _____ past 5

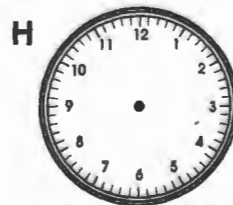


_____ : _____ quarter till _____

2. Match the times.

- | | | | |
|----------|-----------------|-------------------|------|
| a. 10:00 | quarter past 10 | e. quarter past 3 | 3:15 |
| b. 10:15 | half past 10 | f. quarter till 3 | 5:30 |
| c. 10:30 | quarter till 11 | g. quarter past 2 | 2:45 |
| d. 10:45 | ten o'clock | h. half past five | 2:15 |

3. At 12:30 the train stopped at a station in a city. Show this time on clock H.



4. At 12:45 they started again. Show this on clock I.



5. At 1:45 they stopped again for 15 minutes. Which clock shows the time the train started to go again? clock A clock B clock C

LESSON 10

Write the sums. Remember to carry if the sum of the ones' place is 10 or more.

1. $\begin{array}{r} 35 \\ +27 \\ \hline \end{array}$ $\begin{array}{r} 93 \\ +57 \\ \hline \end{array}$ $\begin{array}{r} 28 \\ +85 \\ \hline \end{array}$ $\begin{array}{r} 828 \\ +109 \\ \hline \end{array}$ $\begin{array}{r} 516 \\ +362 \\ \hline \end{array}$ $\begin{array}{r} 449 \\ +237 \\ \hline \end{array}$ $\begin{array}{r} 439 \\ +533 \\ \hline \end{array}$ $\begin{array}{r} 107 \\ +464 \\ \hline \end{array}$

2. $\begin{array}{r} 32 \\ 52 \\ +87 \\ \hline \end{array}$ $\begin{array}{r} 51 \\ 53 \\ +24 \\ \hline \end{array}$ $\begin{array}{r} 16 \\ 40 \\ +68 \\ \hline \end{array}$ $\begin{array}{r} 25 \\ 42 \\ +3 \\ \hline \end{array}$ $\begin{array}{r} 30 \\ 14 \\ +89 \\ \hline \end{array}$ $\begin{array}{r} 223 \\ 52 \\ +24 \\ \hline \end{array}$ $\begin{array}{r} 506 \\ 43 \\ +238 \\ \hline \end{array}$ $\begin{array}{r} 521 \\ 7 \\ +54 \\ \hline \end{array}$

Write these sums and remainders quickly.

3. $38 + 7 = \underline{\quad}$ $41 - 7 = \underline{\quad}$ $18 + 2 = \underline{\quad}$ $46 + 3 = \underline{\quad}$
 4. $72 + 5 = \underline{\quad}$ $56 + 5 = \underline{\quad}$ $24 - 6 = \underline{\quad}$ $87 - 5 = \underline{\quad}$
 5. $50 + 8 = \underline{\quad}$ $41 - 3 = \underline{\quad}$ $75 + 9 = \underline{\quad}$ $65 - 6 = \underline{\quad}$
 6. $\underline{\quad} = 37 - 6$ $\underline{\quad} = 63 + 9$ $\underline{\quad} = 40 - 7$ $\underline{\quad} = 89 + 1$
 7. $\underline{\quad} = 39 + 9$ $\underline{\quad} = 71 - 8$ $\underline{\quad} = 59 - 4$ $\underline{\quad} = 45 + 8$

8. Write the inbetween numbers in each blank, counting by 3.

$3 \underline{\quad} 9$ $15 \underline{\quad} 21$ $48 \underline{\quad} 54$ $96 \underline{\quad} 102$

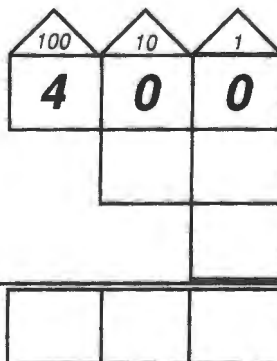
9. Finish the fact at the right. Then write another fact with addends changed around to make a pair of facts.

$\underline{\quad} + 7 = 16$
 $\underline{\quad} + \underline{\quad} = \underline{\quad}$

10. Count by 10.

$\underline{47}$ $\underline{57}$ $\underline{\quad}$ $\underline{\quad}$ $\underline{\quad}$ $\underline{\quad}$ $\underline{\quad}$ $\underline{\quad}$ $\underline{\quad}$ $\underline{\quad}$

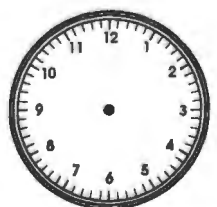
11. Fill in the blanks: 285 means $\underline{\quad}$ hundreds and $\underline{\quad}$ tens and $\underline{\quad}$ ones.



12. The 4 in 462 means $\underline{\quad}$ hundreds or ..
 The 6 in 462 means $\underline{\quad}$ $\underline{\quad}$ or ..
 The 2 in 462 means $\underline{\quad}$ $\underline{\quad}$ or ..

Add the three numbers to make ..

13. Draw hands to show 11:00.



Subtract.

1.	$\begin{array}{r} 68 \\ -45 \\ \hline \end{array}$	$\begin{array}{r} 84 \\ -30 \\ \hline \end{array}$	$\begin{array}{r} 96 \\ -46 \\ \hline \end{array}$	$\begin{array}{r} 758 \\ -532 \\ \hline \end{array}$	$\begin{array}{r} 864 \\ -524 \\ \hline \end{array}$	$\begin{array}{r} 379 \\ -102 \\ \hline \end{array}$	$\begin{array}{r} 259 \\ -256 \\ \hline \end{array}$
----	--	--	--	--	--	--	--

2.	$\begin{array}{r} 73 \\ -4 \\ \hline \end{array}$	$\begin{array}{r} 47 \\ -7 \\ \hline \end{array}$	$\begin{array}{r} 54 \\ -9 \\ \hline \end{array}$	$\begin{array}{r} 31 \\ -5 \\ \hline \end{array}$	$\begin{array}{r} 16 \\ -7 \\ \hline \end{array}$	$\begin{array}{r} 81 \\ -8 \\ \hline \end{array}$	$\begin{array}{r} 28 \\ -4 \\ \hline \end{array}$	$\begin{array}{r} 62 \\ -4 \\ \hline \end{array}$	$\begin{array}{r} 17 \\ -9 \\ \hline \end{array}$	$\begin{array}{r} 39 \\ -6 \\ \hline \end{array}$
----	---	---	---	---	---	---	---	---	---	---

Fill in the missing addends.

3.	$7 + \underline{\quad} = 11$	$6 + \underline{\quad} = 15$	$7 + \underline{\quad} = 13$	$4 + \underline{\quad} = 12$
----	------------------------------	------------------------------	------------------------------	------------------------------

4.	$16 = \underline{\quad} + 7$	$13 = \underline{\quad} + 8$	$11 = \underline{\quad} + 3$	$15 = \underline{\quad} + 9$
----	------------------------------	------------------------------	------------------------------	------------------------------

Fill in the missing subtrahends.

5.	$8 = 11 - \underline{\quad}$	$5 = 10 - \underline{\quad}$	$9 = 13 - \underline{\quad}$	$5 = 11 - \underline{\quad}$
----	------------------------------	------------------------------	------------------------------	------------------------------

6.	$18 - \underline{\quad} = 9$	$12 - \underline{\quad} = 8$	$16 - \underline{\quad} = 8$	$16 - \underline{\quad} = 9$
----	------------------------------	------------------------------	------------------------------	------------------------------

Fill in the missing minuends.

7.	$9 = \underline{\quad} - 6$	$8 = \underline{\quad} - 9$	$8 = \underline{\quad} - 5$	$9 = \underline{\quad} - 3$
----	-----------------------------	-----------------------------	-----------------------------	-----------------------------

8.	$\underline{\quad} - 8 = 6$	$\underline{\quad} - 6 = 5$	$\underline{\quad} - 7 = 9$	$\underline{\quad} - 8 = 4$
----	-----------------------------	-----------------------------	-----------------------------	-----------------------------

Add.

9.	$\begin{array}{r} 727 \\ +245 \\ \hline \end{array}$	$\begin{array}{r} 392 \\ +405 \\ \hline \end{array}$	$\begin{array}{r} 349 \\ +643 \\ \hline \end{array}$	$\begin{array}{r} 107 \\ +789 \\ \hline \end{array}$	$\begin{array}{r} 728 \\ +266 \\ \hline \end{array}$	$\begin{array}{r} 349 \\ +538 \\ \hline \end{array}$
----	--	--	--	--	--	--

10.	$27 + 4 = \underline{\quad}$	$53 + 10 = \underline{\quad}$	$29 + 9 = \underline{\quad}$	$59 + 5 = \underline{\quad}$
-----	------------------------------	-------------------------------	------------------------------	------------------------------

11.	$76 + 9 = \underline{\quad}$	$39 + 6 = \underline{\quad}$	$48 + 10 = \underline{\quad}$	$18 + 3 = \underline{\quad}$
-----	------------------------------	------------------------------	-------------------------------	------------------------------

12.	$\underline{\quad} = 44 + 3$	$\underline{\quad} = 56 + 5$	$\underline{\quad} = 89 + 4$	$\underline{\quad} = 79 + 5$
-----	------------------------------	------------------------------	------------------------------	------------------------------

13.	$\begin{array}{r} 55 \\ 60 \\ 27 \\ +84 \\ \hline \end{array}$	$\begin{array}{r} 64 \\ 46 \\ 97 \\ +56 \\ \hline \end{array}$	$\begin{array}{r} 738 \\ 16 \\ 124 \\ +12 \\ \hline \end{array}$	$\begin{array}{r} 209 \\ 324 \\ 32 \\ +130 \\ \hline \end{array}$	$\begin{array}{r} 23 \\ 604 \\ 13 \\ +32 \\ \hline \end{array}$	$\begin{array}{r} 116 \\ 54 \\ 718 \\ +23 \\ \hline \end{array}$
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CARRYING TO HUNDREDS' PLACE

If the sum of the tens' place is 10 or more, we carry the left hand figure to the hundreds' place and add it to the other figures in the hundreds' column. Sometimes we carry a ten and a hundred.

$$\begin{array}{r} 1 \\ 345 \\ + 271 \\ \hline 616 \end{array} \qquad \begin{array}{r} 11 \\ 648 \\ + 179 \\ \hline 827 \end{array}$$

Write the sums. Carry if you need to.

- | | | | | | |
|----|---|---|---|---|---|
| 1. | $\begin{array}{r} 347 \\ + 262 \\ \hline \end{array}$ | $\begin{array}{r} 279 \\ + 680 \\ \hline \end{array}$ | $\begin{array}{r} 157 \\ + 525 \\ \hline \end{array}$ | $\begin{array}{r} 541 \\ + 292 \\ \hline \end{array}$ | $\begin{array}{r} 593 \\ + 141 \\ \hline \end{array}$ |
| 2. | $\begin{array}{r} 853 \\ + 137 \\ \hline \end{array}$ | $\begin{array}{r} 350 \\ + 469 \\ \hline \end{array}$ | $\begin{array}{r} 278 \\ + 243 \\ \hline \end{array}$ | $\begin{array}{r} 269 \\ + 450 \\ \hline \end{array}$ | $\begin{array}{r} 658 \\ + 142 \\ \hline \end{array}$ |

CHECK IT OUT!

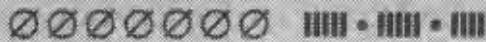


Study the two examples below and their sums.

A

tens	ones
4	8
+ 3	6
7	14

tens ones



B

tens	ones
1	
4	8
+ 3	6
8	4

tens ones



3. Is 7 tens and 14 ones (Sum A) the same as 8 tens and 4 ones (Sum B)? _____
 Which example shows the proper way to write the sum? A B

Write the sums.

4. $84 + 2 = \underline{\quad}$ $49 + 8 = \underline{\quad}$ $\underline{\quad} = 27 + 9$ $\underline{\quad} = 19 + 1$
 5. $49 + 7 = \underline{\quad}$ $23 + 5 = \underline{\quad}$ $\underline{\quad} = 16 + 4$ $\underline{\quad} = 39 + 5$



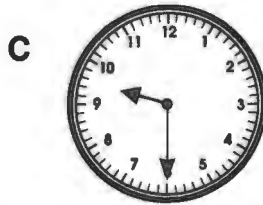
6. Dictation:

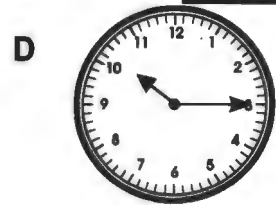
- a. _____ b. _____ c. _____ d. _____ e. _____ f. _____

1. Write the time 2 ways.









2. Write the sums.

$$\begin{array}{r} 87 \\ + 39 \\ \hline \end{array}$$

$$\begin{array}{r} 66 \\ + 69 \\ \hline \end{array}$$

$$\begin{array}{r} 143 \\ + 548 \\ \hline \end{array}$$

$$\begin{array}{r} 402 \\ + 276 \\ \hline \end{array}$$

$$\begin{array}{r} 57 \\ + 18 \\ \hline \end{array}$$

$$\begin{array}{r} 59 \\ + 68 \\ \hline \end{array}$$

$$\begin{array}{r} 408 \\ + 315 \\ \hline \end{array}$$

$$\begin{array}{r} 127 \\ + 316 \\ \hline \end{array}$$

3. Using her handspan (from the tip of the thumb to the tip of the little finger) Martha decided the train seat must be about 20 inches wide. Is that more or less than a foot? _____

4. Count the money. Add the cents.



_____ ¢



_____ ¢



+ _____ ¢



+ _____ ¢

5. While going through the countryside, Martha and Mary decided to count the barns. From one station to the next, Martha counted 17 barns from her window. On the other side, Mary counted 14 barns. How many barns did the girls count?

5.

Fill in the blanks. Watch the signs!

6. _____ - 8 = 8

9 = 18 - _____

15 - _____ = 8

7 + 9 = _____

7. 7 + 8 = _____

5 + _____ = 14

_____ = 13 - 6

8 + _____ = 16

8. 16 - _____ = 7

_____ = 15 - 6

17 - 8 = _____

_____ - 8 = 6

9. 8 + 9 = _____

_____ + 7 = 16

_____ = 8 + 8

9 + _____ = 17

10. Write the other part of...

a. 16, if one part is 7. _____

b. 16, if one part is 8. _____

CHECKING ADDITION

We can check our addition sums by subtracting.

To check a sum by subtracting, we subtract one of the addends from the sum. That answer should be the same as the other addend. If it is not, we need to go back and find our mistake.

A

$$\begin{array}{r} 7 \\ + 8 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 16 \\ - 8 \\ \hline 8 \end{array}$$

Somebody did something wrong somewhere!

B

$$\begin{array}{r} 7 \\ + 8 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 15 \\ - 8 \\ \hline 7 \end{array}$$

That's better!

*When you're finished adding
Just turn it upside down.
Subtract to check your answer.
It's right? No need to frown!*

1. Write the sums. Beside each addition example, check it by subtracting. Circle the remainder in the check and draw an arrow to the addend like the examples above. If an answer does not check out correctly, go back and find your mistake.

a. $\begin{array}{r} 17 \\ + 52 \\ \hline \end{array}$

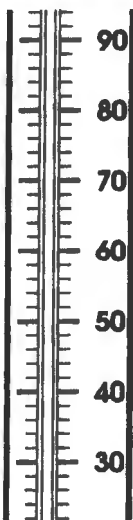
b. $\begin{array}{r} 624 \\ + 152 \\ \hline \end{array}$

c. $\begin{array}{r} 45 \\ + 23 \\ \hline \end{array}$

2. Martha counted 19 people on one side of the train and 20 people on the other side. Write your work and your check work to find how many people Martha counted.

Work:	Check:
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3. Make the thermometer show 64 degrees.

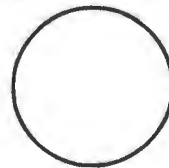


4. Divide the shapes.

triangle: $\frac{1}{2}$

circle: $\frac{1}{3}$

square: $\frac{1}{4}$



5. On the lines beside the shapes write the correct fraction words.

one third

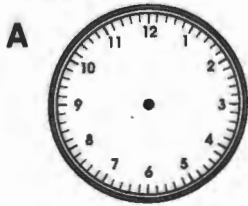
one fourth

one half

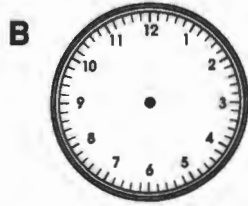




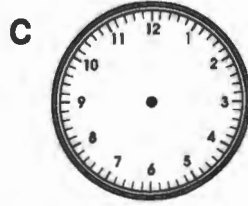
1. Draw hands to show these times.



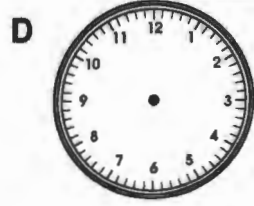
5:45



quarter past 8



11:15



quarter till 2

2. How much money do these coins make?

- a. 1 quarter and 2 dimes _____
- b. 2 dimes and 5 pennies _____
- c. 2 quarters and 1 nickel _____

- d. 5 nickels _____
- e. 3 quarters _____
- f. 8 dimes _____

3. How much would be left if you had...

a. a quarter and spent 4¢? _____

b. 28¢ and spent 5¢? _____

Fill in the missing numbers. Watch the signs.

4. $13 - \underline{\quad} = 4$ $2 + \underline{\quad} = 11$ $5 = 11 - \underline{\quad}$ $17 = 8 + \underline{\quad}$

5. $7 + \underline{\quad} = 16$ $15 - \underline{\quad} = 8$ $9 = 16 - \underline{\quad}$ $13 = 4 + \underline{\quad}$

6. Write the sums.

				234	142	37	545
264	276	58	77	178	46	170	159
15	87	108	96	62	234	429	36
202	35	679	384	257	370	258	83
<u>+113</u>	<u>+446</u>	<u>+47</u>	<u>+210</u>	<u>+73</u>	<u>+35</u>	<u>+39</u>	<u>+154</u>

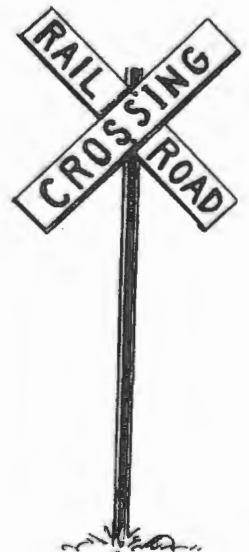
7. Seeing a railroad crossing sign, Martha remembered a riddle she had heard. It took Jerry 35 minutes to figure out the answer. Was that more or less than one half hour?

- more less

Here is the riddle Martha gave Jerry. Can you do it?

(Ask your teacher if you need help)

*Railway crossing, watch out for cars;
Can you spell it without any r's?*



**WEEKLY CHECKUP 9**

Answer with "yes" or "no" for Ex. 1 to 10.

1. 2 quarters = 1 half dollar 1. _____
2. The freezing point of water is 32°. 2. _____
3. The number word for 462 is written with a hyphen between four and six. 3. _____
4. When the time is 4:45, in another 15 minutes it will be 5:00. 4. _____
5. We can check addition by subtracting. 5. _____
6. Quarter past six is the same as 6:45. 6. _____
7. If the sum of the tens' place is 10 or more we carry to the ones' column. 7. _____
8. 315 is read three hundred and fifteen. 8. _____
9. There are 30 minutes from 9:30 to 10:00. 9. _____
10. When the sum of the ones' place is 10 or more we carry to the tens' column. 10. _____

11. 284 means...

 4 hundreds, 8 tens, and 2 ones. 2 hundreds, 8 tens, and 4 ones.

12. Fill in the missing numbers.

a.	_____	24	_____	28	_____	_____	_____	_____	_____
b.	10	_____	_____	40	_____	_____	_____	_____	_____
c.	3	_____	9	_____	_____	_____	_____	_____	_____
d.	_____	50	_____	100	_____	_____	_____	_____	_____
e.	50	_____	150	_____	_____	_____	_____	_____	_____
f.	_____	10	_____	20	_____	_____	_____	_____	_____
g.	35	37	_____	_____	_____	_____	_____	_____	_____
h.	42	52	_____	_____	_____	_____	_____	_____	_____

13. Fill in the blanks. Watch carefully.

582 means _____ hundreds _____ tens _____ ones

457 means _____ ones _____ hundreds _____ tens

380 means _____ tens _____ ones _____ hundreds

14. Write the three-place number that comes before or after:

429 _____ 752

_____ 510 299 _____

