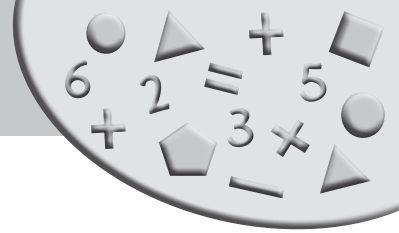


Table of Contents

Introduction	3	Test 33.	37	Time	
Tracking Sheet	4	Test 34.	38	Test 70.	74
Numbers		Test 35.	39	Test 71.	75
Test 1.	5	Test 36.	40	Test 72.	76
Test 2.	6	Test 37.	41	Test 73.	77
Test 3.	7	Test 38.	42	Test 74.	78
Test 4.	8	Test 39.	43	Test 75.	79
Test 5.	9	Test 40.	44	Interpret Data	
Test 6.	10	Test 41.	45	Test 76.	80
Test 7.	11	Test 42.	46	Test 77.	81
Test 8.	12	Subtraction		Test 78.	82
Test 9.	13	Test 43.	47	Test 79.	83
Test 10.	14	Test 44.	48	Test 80.	84
Test 11.	15	Test 45.	49	Geometry	
Operations in Base 10		Test 46.	50	Test 81.	85
Test 12.	16	Test 47.	51	Test 82.	86
Test 13.	17	Test 48.	52	Test 83.	87
Test 14.	18	Test 49.	53	Test 84.	88
Test 15.	19	Test 50.	54	Test 85.	89
Test 16.	20	Test 51.	55	Test 86.	90
Test 17.	21	Test 52.	56	Symmetry	
Test 18.	22	Test 53.	57	Test 87.	91
Test 19.	23	Test 54.	58	Test 88.	92
Test 20.	24	Mixed Equations		Test 89.	93
Test 21.	25	Test 55.	59	Fractions	
Test 22.	26	Test 56.	60	Test 90.	94
Greater Than, Less Than, Equal To		Test 57.	61	Test 91.	95
Test 23.	27	Test 58.	62	Test 92.	96
Test 24.	28	Test 59.	63	Test 93.	97
Test 25.	29	Test 60.	64	Test 94.	98
Test 26.	30	Measurement		Test 95.	99
Test 27.	31	Test 61.	65	Money	
Number Lines		Test 62.	66	Test 96.	100
Test 28.	32	Test 63.	67	Test 97.	101
Test 29.	33	Test 64.	68	Test 98.	102
Test 30.	34	Test 65.	69	Test 99.	103
Addition		Test 66.	70	Test 100.	104
Test 31.	35	Test 67.	71	Standards	105
Test 32.	36	Test 68.	72	Answer Key	106
		Test 69.	73		

Introduction



The *Minutes to Mastery* series was designed to help students build confidence in their math abilities during testing situations. As students develop fluency with math facts and operations, they improve their abilities to do different types of math problems comfortably and quickly.

Each of the 100 tests in this book has 10 questions in key math areas. Multiple opportunities are presented to solve the standards-based problems while developing speed and fluency. The pages present problems in a variety of ways using different terminology. For instance, in subtraction, students might be asked to *subtract* or to *find the difference*. Terms like *less* and *minus* are both used to ensure that students are comfortable with different phrasings. Word problems are included to provide additional practice decoding text for clues. Critical thinking and abstract reasoning play such an important role in solving math problems, and practice is imperative.

Keep in mind, timing can sometimes add to the stress of learning. If this is the case for your math learner(s), don't focus on timing in the beginning. As confidence in the process of answering a number of different types of questions builds, so will accuracy and speed. Then you can introduce timing.

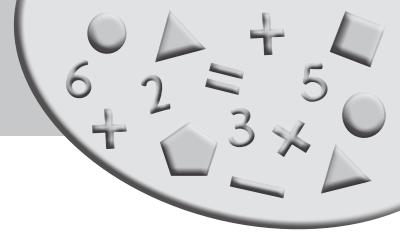
Establish a timing system that works well for your group. Here are steps to help you get started:

1. Present a worksheet without officially timing it to get a sense of how long it will take to complete—perhaps 10 minutes. Ideally, you want all ten questions per page to be answered.
2. Allow students to practice using the preferred timer before taking a timed test.
3. Remind students to write their answers neatly.
4. Take a few timed tests and see how it works. Adjust the time as needed.
5. Work to improve the number of correct answers within the given time. Remind students that it is important to be accurate, not just fast!
6. Encourage students to try to do their best each time, to review their results, and to spend time working on areas where they had difficulties. The Tracking Sheet can be used to record the number of correct answers for each test. The final column can be used for the date the test was taken or for initials.



The section at the bottom of each page can be used to record specific progress on that test, including the time the student started the test, finished the test, the total time taken, how many problems were completed, and how many problems were correct.

Hopefully, with practice, all students will begin challenging themselves to go faster, while remaining accurate and writing clearly.



Name _____ Date _____

Write the following numbers in expanded notation. The first one has been started for you.

1. $13 = \underline{10} + \underline{\hspace{2cm}}$



2. $68 = \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

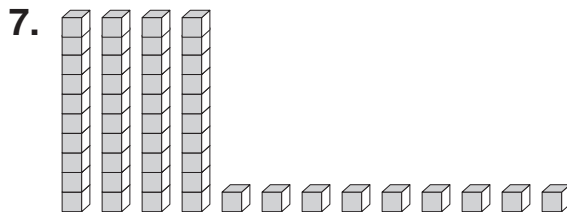
3. $45 = \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

4. $79 = \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

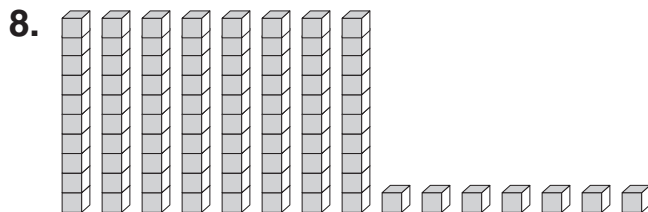
5. $21 = \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

6. $36 = \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

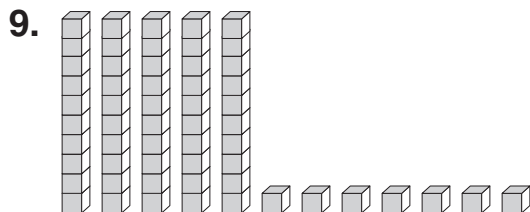
Count the tens () and ones ().



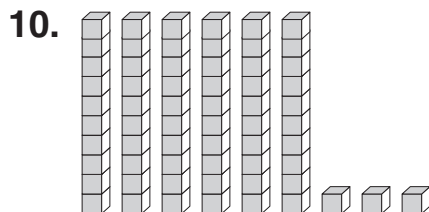
_____ Tens _____ Ones



_____ Tens _____ Ones



_____ Tens _____ Ones



_____ Tens _____ Ones

Started:

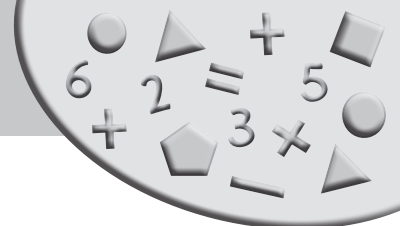
Finished:

Total Time:

Completed:



Correct:





Name _____ Date _____

Cross out the stars to subtract. Write each problem and solve.

<p>1. Cross out 7 and subtract.</p> <div style="text-align: center;">  </div> <div style="text-align: center; margin-top: 20px;"> _____ - _____ = _____ </div>	<p>2. Cross out 9 and subtract.</p> <div style="text-align: center;">  </div> <div style="text-align: center; margin-top: 20px;"> _____ - _____ = _____ </div>
--	---

Find the differences.

3. $17 - 8 =$ _____

4. $18 - 8 =$ _____

5.
$$\begin{array}{r} 19 \\ - 10 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 16 \\ - 7 \\ \hline \end{array}$$

Use the numbers in each box to make 2 subtraction problems.

10 4 6

7. _____ - _____ = _____

8. _____ - _____ = _____

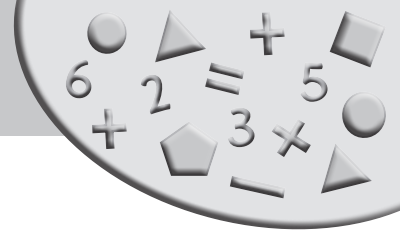
5 13 8

9. _____ - _____ = _____

10. _____ - _____ = _____

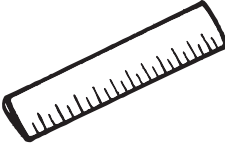



Started:	Finished:	Total Time:	Completed:	Correct:
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Name _____ Date _____

Answer the questions about measuring tools. Write the correct letter for each answer.

A.		B.		C.		D.	
	ruler		measuring cup		thermometer		scale

- This item measures temperature. _____
- This item measures how long something is. _____
- This item measures how much something weighs. _____
- This item measures liquids. _____

What would be *heavier*? Circle your answers.

- a bike **or** a skateboard
- a book **or** a desk
- a watermelon **or** an apple
- a crayon **or** a backpack

Compare the chains and follow the directions.

- Circle the *shortest* chain.



- Cross out the *longest* chain.



Started:

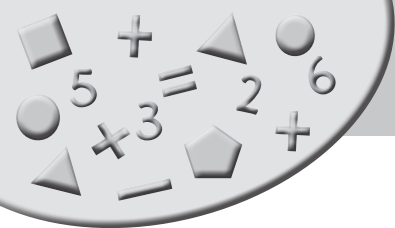
Finished:

Total Time:

Completed:

Correct:





Name _____ Date _____

Match the times. Write the correct letter next to the analog clock.

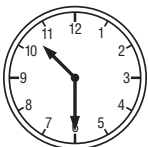
1.



A.

8:30

2.



B.

6:30

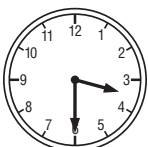
3.



C.

3:30

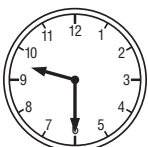
4.



D.

1:30

5.



E.

7:30

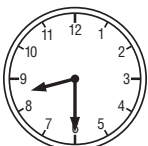
6.



F.

10:30

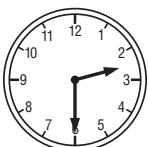
7.



G.

9:30

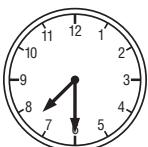
8.



H.

2:30

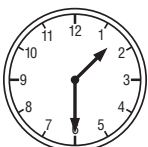
9.



I.

5:30

10.



J.

4:30



Started:

Finished:

Total Time:

Completed:

Correct: