

**Grade 7 Mid-Point
Math Check –Up
(Student Copy)**

Name: _____ **Date:** _____

Please note that the last page of this check-up will be done with your teacher in the form of an interview.

Tell us what you thought! After each question, circle a happy or sad face.

If the question was easy, circle the smile!

If the question was hard, circle the frown!



Easy



Hard

Part I Mental Math

A. Mental Math - Addition and Subtraction

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

B. Mental Math – Multiplying / Dividing

- | | |
|----------|-----------|
| 1. _____ | 11. _____ |
| 2. _____ | 12. _____ |
| 1. _____ | 13. _____ |
| 2. _____ | 14. _____ |
| 3. _____ | 15. _____ |
| 4. _____ | 16. _____ |
| 5. _____ | 17. _____ |
| 6. _____ | 18. _____ |
| 7. _____ | 19. _____ |
| 8. _____ | 20. _____ |



Easy



Hard

Part II Number Sense

1. Add.

$$\begin{array}{r} 92\,396 \\ +1\,969 \\ \hline \end{array}$$

$$56.38 + 9.87 =$$

2. Subtract

$$\begin{array}{r} 2008 \\ - 389 \\ \hline \end{array}$$

$$58.78 - 9.88 =$$

3. Multiply

$$\begin{array}{r} 76 \\ \times 68 \\ \hline \end{array}$$

$$\begin{array}{r} 30.76 \\ \times 54 \\ \hline \end{array}$$

$$\begin{array}{r} 8.73 \\ \times 1.5 \\ \hline \end{array}$$

4. Divide

$$9 \overline{)387}$$

$$8.1 \div 9 =$$



Easy



Hard

Divisibility Rules

5. a) 76_84 Fill in the missing digit so that the number is divisible by both 3 and 9.

b) Is the number divisible by 6?

c) Explain how you know

6. Identify the LCM (least common multiple) and three other common multiples for each.

a) 4, 3

b) 10, 15

7. Identify the complete set of factors for:

a) 24

b) 30



Easy



Hard

Part III Fractions

8. Arrange these fractions from least to greatest.

$$\frac{5}{12} \quad \frac{1}{6} \quad \frac{3}{4} \quad \frac{5}{8}$$

9. Arrange these numbers from least to greatest.

$$.75 \quad \frac{2}{3} \quad 1 \quad \frac{4}{5}$$

10. Convert these fractions to decimals.

$$\frac{3}{4}$$

$$\frac{2}{7}$$

11. Add. Reduce to lowest terms.

a) $\frac{2}{3} + \frac{1}{10}$

b) $\frac{3}{8} + \frac{5}{6}$

c) $5\frac{7}{8} + 2\frac{5}{6}$

12. Subtract. Reduce to lowest terms.

a) $\frac{7}{10} - \frac{1}{4} =$

b) $\frac{3}{4} - \frac{2}{3} =$

c) $2 - \frac{3}{4} =$



Easy



Hard

Problem Solving Strategies - Grade 7

Please use this list of problem solving strategies to help you answer the question...What strategy did you use?

- 1) Act it Out
- 2) Use a Model
- 3) Draw a Picture
- 4) Guess and Test
- 5) Look for a Pattern
- 6) Use an Open Sentence
- 7) Make a Chart, Table or Graph
- 8) Solve a Simpler Problem
- 9) Consider all Possibilities
- 10) Consider Extreme Cases
- 11) Make an Organized List
- 12) Work Backward
- 13) Use Logical Reasoning
- 14) Change Your Point of View
- 15) Other (explain)

Part IV Problem Solving

1. Chantel has a piece of ribbon that is 60cm long and one that is 150cm long. She wants to cut both ribbons into pieces that are all the same length. What are the longest pieces she can make?

What strategy did you use to solve this problem?



2. Mother had $\frac{7}{8}$ of a pie left for dinner. If $\frac{1}{4}$ of the original whole pie is eaten for dinner, how much of the pie is left?

What strategy did you use to solve this problem?



3. Martha has read $\frac{3}{7}$ of the assigned reading. Barry has read $\frac{9}{14}$ of the assigned reading. How much more of the assigned reading has Barry completed than Martha?

What strategy did you use to solve this problem?



4. The cost of food for the party was \$112.00 and this cost was shared equally among the 28 students. How much did each student have to pay for food?

What strategy did you use to solve this problem?



Name: _____

Interview Questions: Mental Math Questions

Have the students tell you how they calculate the following questions without the use of a pencil. Jot down the student's response in the space below. Responses will tell you how students are able to break numbers down and put them back together.

*Have the students record their answer on their sheet. Students need to be assigned only 2 out of the 5 questions. Rotate the assigned questions to various students so that every one is not answering the same question.

1. $36 + 18 + 42 =$ _____

2. $8 \times 15 =$ _____

3. $3200 \div 40 =$ _____

4. $220 - 70 =$ _____

5. $\frac{3}{4}$ _____ $\frac{7}{8}$ (use < or >)