

SAMPLE SECTION I [GOAL 10-15 Minutes All Correct] Score: ____/10

Calculate the following:

1. $1 \frac{3}{4} \times \frac{6}{9} + 1 \frac{1}{6} \div 2 \frac{1}{3}$

2. $\frac{8}{9} + 2 \frac{1}{4} \times \frac{5}{6} \times \frac{8}{9}$

3. $2 \frac{1}{3} \div 3 \frac{1}{2} \div \frac{3}{6} \times \frac{7}{8}$

4. $\frac{4}{6} - \frac{2}{4} + \frac{5}{9} \div 1 \frac{3}{7}$

5. $2 \frac{2}{3} \times 1 \frac{3}{6} \times 1 \frac{3}{4} \div \frac{3}{4}$

6. $2 \frac{1}{2} \div 1 \frac{1}{4} + \frac{6}{8} \div 1 \frac{3}{4}$

7. $1 \frac{2}{4} \div 1 \frac{3}{6} + 1 \frac{2}{6} \times 1 \frac{4}{6}$

8. $1 \frac{3}{4} \times \frac{5}{7} + 2 \frac{1}{3} \div 1 \frac{1}{3}$

9. $\frac{4}{5} - 1 \frac{2}{8} + 1 \frac{1}{5} + 1 \frac{2}{8}$

10. $\frac{5}{7} \times 1 \frac{1}{4} - \frac{6}{8} + 1 \frac{3}{7}$

SAMPLE

Score: ____/11

Estimation - Choose the right answer.

	(a)	(b)	(c)	(d)
1) $(59.35 - 14.07) \times 3.12 =$	17	140	1.7	14
2) $2/7 \times 3 \frac{1}{2} + 2/5 =$	$3/5$	1	$1 \frac{2}{5}$	$2 \frac{3}{5}$
3) 0.09 of 9.09 =	8	9.1	.18	.81
4) $2/3$ of 0.98 \cong	< 0.5	0.65	> 0.75	0.6
5) 0.01 of 100 =	$1/10$	1000	.001	1
6) $1/2 \div 1/3 \times 7$ is	> 11	< 10	10.5	10.3

Word Problems

7-9. A car has to travel 750 miles. The first third of the distance is traveled at 60 miles per hour. The rest of the distance is covered at 75 miles per hour.

7. How much time is taken for the first third of the distance?

8. How much time is taken for the total distance?

9. What is the average speed of the entire distance in miles per hour?
Calculate to the nearest mile/hr.

10-11. A motorist uses approximately 40 gallons of gas a month. Gas prices go up from \$1.20 to \$1.44.

10. How many gallons of gas should the motorist buy to keep his gas bill the same?

11. What is the percentage increase in the price of gas?
