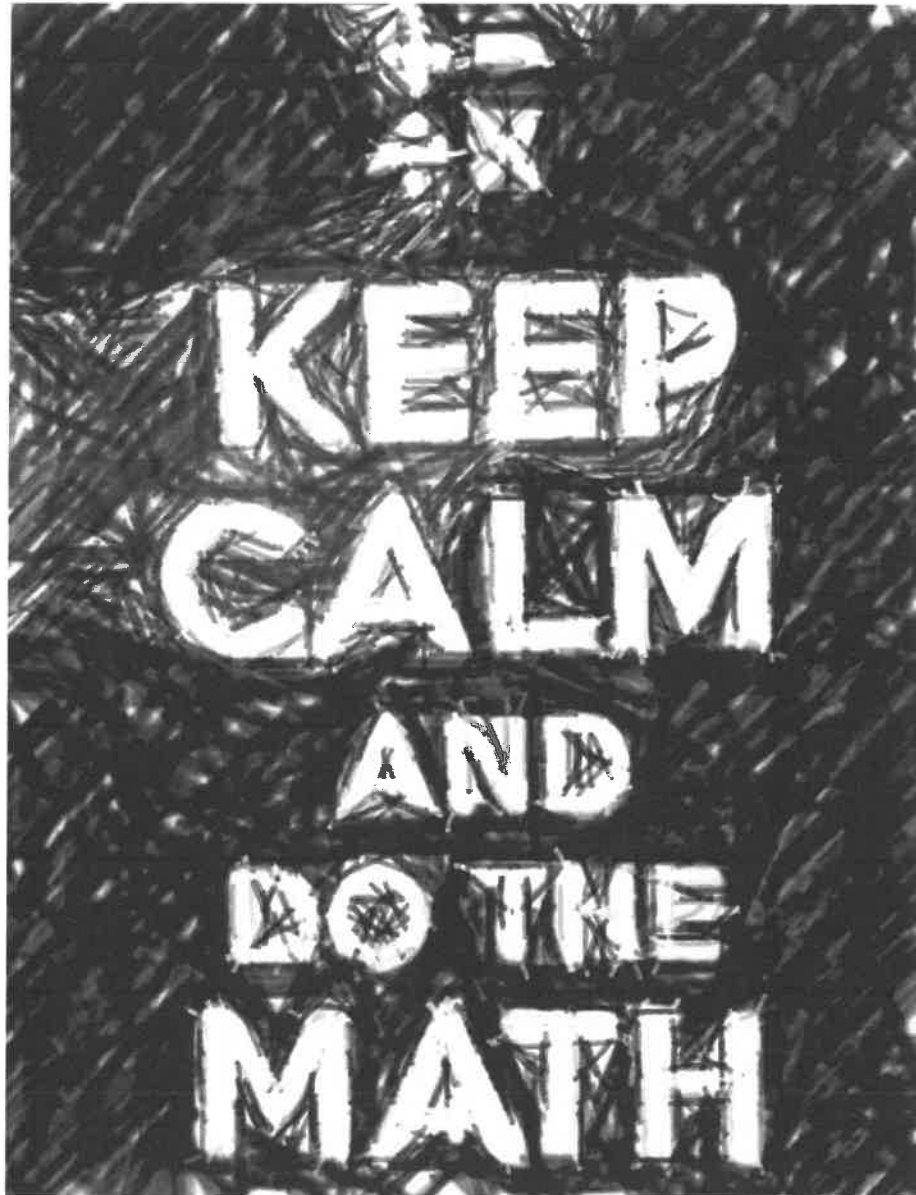


NAME: _____

Math P.A.T. Prep

Percentage - SOLUTIONS



St. Brendan School
Mr. Martínez

Math Quiz

Sam

✓ 1. $\sqrt{49} = 7$

✓ 4. $8 + \sqrt{25} = 13$

$8 + 5 = 13$

decimal places work out ✓ 2. $\sqrt{110.25} = 10.5$

✓ 5. $(\sqrt{4})^2 = 4$

$(\sqrt{4})^2 = 2^2 = 4$

the # of decimals does not work out ✗ 3. $\sqrt{8.6} = 4.3$

✗ 6. $\sqrt{144} + \sqrt{144} = 12$



3. What percentage of the questions did Sam answer correctly?

A. 33%

B. 50%

C. 67%

D. 83%

$\frac{4}{6} \rightarrow \text{correct}$
 \rightarrow
 $\frac{2}{3} \rightarrow \text{total}$

$\frac{2}{3} = 66.6\%$

32. Jenny notices that a music store is having a "No GST and 40% off the regular price" sale. If the regular price of a CD is \$15.99, then what is the maximum number of sale-priced CDs that Jenny can buy with her \$80 gift card?

A. 8

B. 9

C. 11

D. 13

$\$15.99 \times (0.4)$

$\bullet \$15.99 \rightarrow 10\% = 1.59 \rightarrow 40\% \frac{1.59 \times 4}{4} = \6.36

\bullet Each CD is \$6.36

A. it can't be 8 because it has to be > 10
B. it can't be 9 because it has to be > 10

\rightarrow D. not enough money

Jennifer's goal is to save \$1 200. Each week she saves 20% of her weekly income of \$576.

7. How many weeks will it take Jennifer to reach her goal?

A. 10

B. 11

C. 24

D. 29

$\bullet \$1200$

$\hookrightarrow \$115.2 \text{ per week}$

$115.2 \times 10 = 1152 \text{ (not enough)}$

$\bullet 20\% \text{ of } 576 \rightarrow (576)(0.20) = \115.2

Ben was earning a monthly salary of \$5 000 before he changed jobs. At his new job he earns 10% less than he did at his old job.

31. If after one year at his new job Ben receives a pay increase of 15%, how much will he then be earning per month?

A. \$4 725

B. \$4 750

C. \$5 175

D. \$5 250

$\bullet \$5000 \leftrightarrow 10\% = 500$

\bullet he earns $5000 - 500 = \$4500$

$\bullet \$4500 \times (0.15) = \675

He would be earning $\rightarrow 4500 + 675 = 5175$