

A3 Review Booklet (Chapter 4) version 1

PLO A3 - Demonstrate an understanding of percents greater than or equal to 0%.

For #1 to #5, choose the correct answer.

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1. What is 78.2% as a decimal?

- A 0.782 B 7.82 C 78.2 D 782

2. What is $\frac{3}{16}$ as a percent?

- A 1.875% B 18.75% C 187.5% D 1875%

3. What is 12.5% as a fraction?

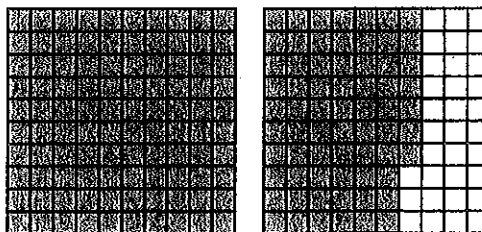
- A $\frac{1}{8}$ B $\frac{3}{16}$ C $\frac{1}{4}$ D $\frac{3}{8}$

4. What is 3.194 as a percent?

- A 3.194% B 31.94% C 319.4% D 3194%

5. One completely shaded grid represents 100%. What percent does the diagram represent?

- A 0.167%
B 1.67%
C 16.7%
D 167%



6. Convert each of the following:

- a) 48% to a decimal and a fraction in lowest terms

b) 3.375 to a percent and a fraction in lowest terms

c) $\frac{4}{5}$ to a decimal and a percent

7. Determine the following. Write your answer to the nearest tenth.

a) 94% of 63

b) 146.3% of 300

c) 7 out of 12 as a percent

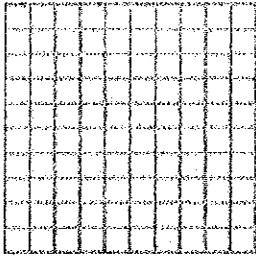
d) 18 out of 80 as a percent

e) 60% of 78

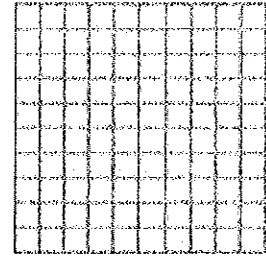
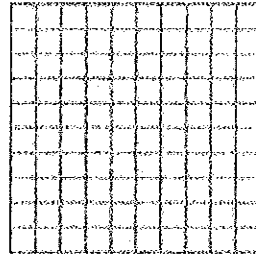
f) 0.05% of 1000

8. Use hundred grids to represent each percent.

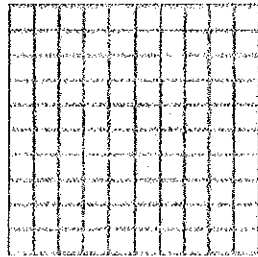
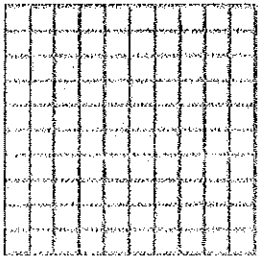
a) 0.25%



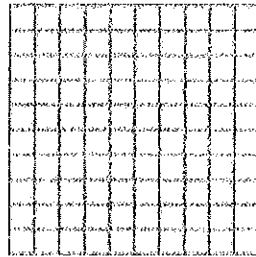
b) 110%



c) 106.5%

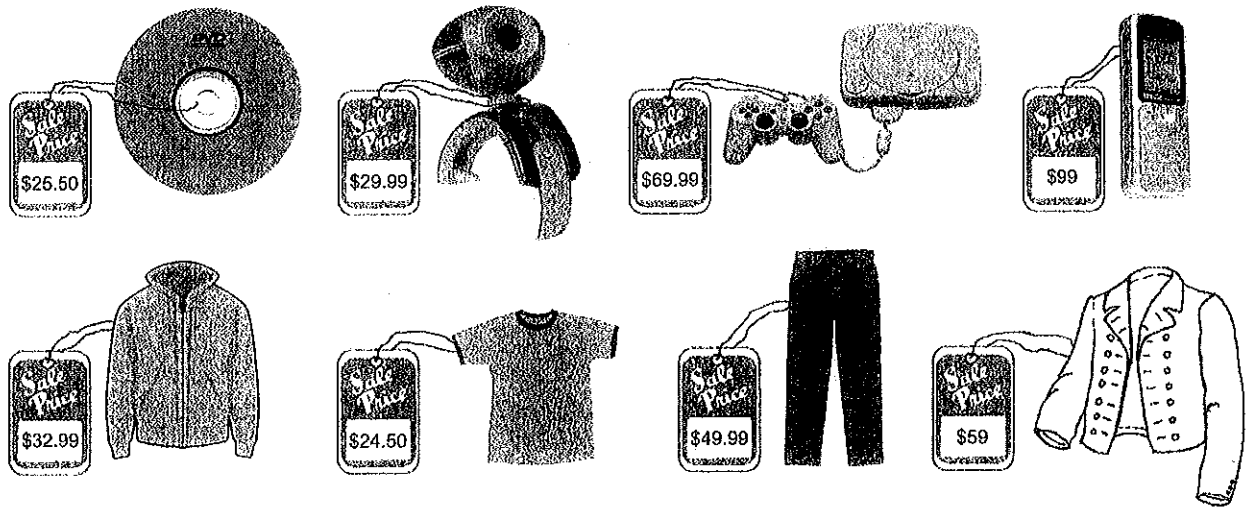


d) 33%



9. Mary is blowing up a birthday balloon. After the first breath, the balloon has a 5-cm diameter. The diameter increases at a constant rate of 20% each second. What is the diameter of the balloon after 3 s?
10. During this basketball season Trey took 250 shots and made 72 baskets. What was his shooting percentage?
11. A bus company offers a 15% discount on bus tickets one day and then an additional 10% off the sale price the next day. Lily wants to buy a bus ticket that has a regular price of \$175. What will she pay for it after the discounts?

12. You have won a shopping spree worth \$200. You must buy at least 4 items of your choice. Each item is offered at a 25% discount.



a) Find the total cost of each item you choose including 5% GST and 6% PST. Show your work.

b) Total the cost of all of your items and calculate your change from the \$200 you won.