Sample Assessment Booklet: New Layout Booklet 1

ANSWERS

Grade 9 Assessment of Mathematics • Academic

2015

DIRECTIONS

Answering Multiple-Choice Questions

Answer all multiple-choice questions. If you fill in more than one answer to a question, or leave a question blank, the question will be scored zero. Incorrect answers will also be scored zero.

Answering Open-Response Questions

Do all of your work for each question in the space provided for the question **only.** Work on additional or other pages will **not** be scored.

Write your solutions, including all calculations, clearly and completely, as they will be scored by someone who does not know your work. Your teacher may also mark some or all of your work.

Record ALL your answers to multiple-choice and open-response questions in this booklet.

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You are now ready to start the assessment.



Please read the questions in *Question Booklet 1;* then fill in your answers below.

To indicate your answer, use a pencil to fill in the appropriate circle below completely.

Like this:

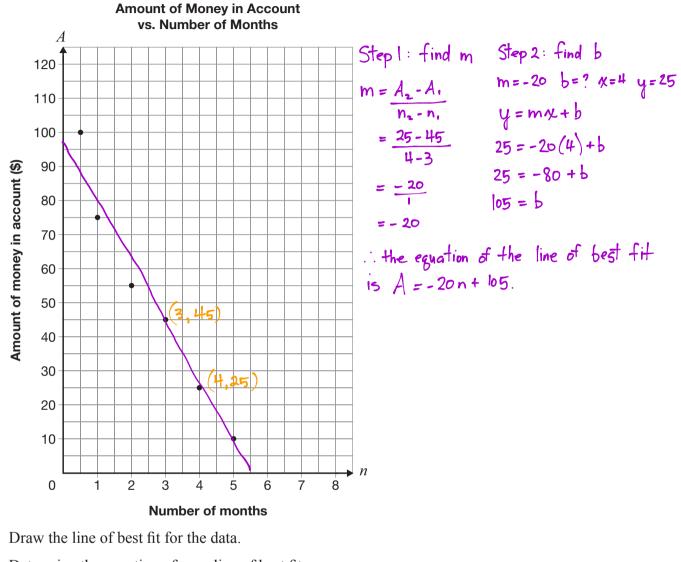


Cleanly erase your answer if you wish to change it and fill in the circle for your new answer. Fill in only **one** circle for each question.



8 More Money, Please!

The graph below shows information about the amount of money, A, in Shreya's bank account and the number of months, n, she has had the account.



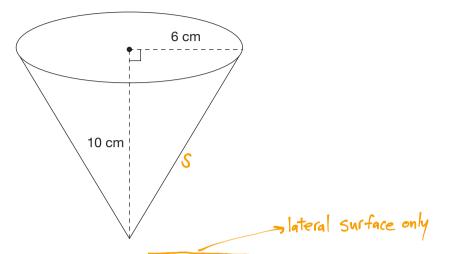
Determine the equation of your line of best fit.

A = -20n + 105

Show your work.

Coated Cones

An ice cream store offers chocolate-coated cones as shown in the diagram below.



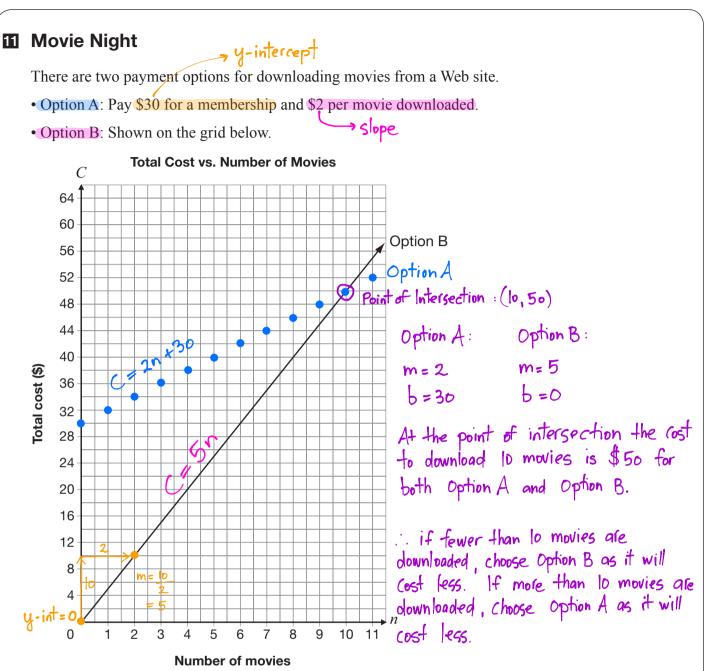
The cone is open topped, and the entire outside is coated in chocolate. Determine the area of the surface that is coated in chocolate.

Show your work.

 $S^{2} = 10^{2} + 6^{2}$ $SA = \pi rs$ = 100 + 36 = 136 $S = \sqrt{136}$ $\therefore \text{ the area of the Surface coated}$ in chocolate is approximately 219.8 cm².

10 Share the Profits Three partners, Luc, Deborah and Melanie, share the profits of a business in the ratio 2:3:7 respectively. 2+3+7 The profit for this year is \$176 496. = 12 parts Determine the share of the profit for each partner. Show your work. Let x represent Luc's profit, in \$. $\frac{\chi}{17(119)} = \frac{\chi}{10.6}$ $176496\left(\frac{x}{176496}\right) = \frac{176496}{176496}$ x = 29416Luc's profit is \$ 29 416. Let y represent Deborah's profit, in \$ $\frac{\chi}{17(119)} = \frac{3'}{19'4}$ $176496\left(\frac{x}{17/496}\right) = \frac{176496}{4}\left(\frac{1}{4}\right)$ X = 44124: Deborah's profit is \$44124. Let y represent Melanie's profit, in \$. $\frac{\chi}{176496} = \frac{7}{12}$ $176496\left(\frac{x}{172496}\right) = 176496\left(\frac{7}{12}\right)$ x = |02.956|: Melanie's profit is \$ 102 956.

Open-Response



Determine under which conditions a person should select Option A and under which conditions a person should select Option B.

Justify your answer.



Please read the questions in *Question Booklet 1;* then fill in your answers below.

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Like this:



Cleanly erase your answer if you wish to change it and fill in the circle for your new answer. Fill in only **one** circle for each question.





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2 Carlton Street, Suite 1200, Toronto ON M5B 2M9 Telephone: 1-888-327-7377 Web site: www.eqao.com

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