

# Mathematics Essentials 11

*Outcomes*

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Mathematics Essentials 11

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## Mathematics Essentials 11 Outcomes

<b>A1</b> understand the various savings and investing alternatives commonly available
<b>A2</b> explore the concepts of risk tolerance vs. reward investing and demonstrate an understanding of how it changes during different life stages
<b>A3</b> understand the rights and responsibilities of landlords and tenants
<b>B1</b> know the multiplication and division facts
<b>B2</b> extend multiplication and division facts to products of tens, hundreds, and thousands by single digit factors
<b>B3</b> estimate sums and differences
<b>B4</b> estimate products and quotients
<b>B5</b> mentally calculate 25%, $33\frac{1}{3}\%$ , $66\frac{1}{3}\%$ and of quantities compatible with these percents
<b>B6</b> estimate percents of quantities
<b>B7</b> calculate the cost of a loan using amortization tables
<b>B8</b> determine the cost of using credit, using technology
<b>B9</b> determine the cost associated with renting an apartment or buying a house
<b>B10</b> determine the expenses related to taking a trip (i.e., gasoline, accommodations, meals, etc.)
<b>C1</b> interpret data from amortization tables
<b>C2</b> explore the effects of parameter changes on the cost of borrowing money
<b>C3</b> determine the effects of compound interest on deposits made into savings accounts using technology
<b>C4</b> explore the growth of savings based on a variety of investment strategies ranging in amounts and time frames using technology
<b>D1</b> demonstrate an understanding of the concept of perimeter and area

**D2** calculate perimeter and area

**D4** use perimeter and area to solve a variety of real world problems

**D7** use surface area and volume to solve real world problems

**E2** understand and apply the Pythagorean Theorem

**E3** find the missing side measure in a right angle triangle

**E4** create 2-D scale diagrams and 3-D scale models

**F5** collect, display, and analyze data to draw appropriate conclusions about relevant questions or issues