

MEL4E

Ontario Educational Resources Bank (OERB) Activities

Reasoning with Data

Activity

Description

Flip, Spin and Roll Your Way to Understanding Probability!

Frequency table for 10 spins:

Colour	Frequency	Percent	Fraction	Decimal
Red	4	40%	$\frac{4}{10}$	0.4
Blue	1	10%	$\frac{1}{10}$	0.1
Yellow	3	30%	$\frac{3}{10}$	0.3
Green	2	20%	$\frac{2}{10}$	0.2



It is time to try the spinner simulation. Press the 'Spin' button to begin and complete ten spins. Once you are finished, look at the frequency column and complete the rest of the table for fractions, percents, and decimals. If you have completed them all correctly the 'Create Graph' button will be activated. If you have some wrong then you will have to correct the ones that are highlighted. If you are still having difficulty after your second try, the correct answers will be filled in for you. Once this table is correct press the 'Create Graph' button to move to the next screen. Look at the graph and complete the two questions on probability. When you are finished, you will be taken back to finish the last simulation.

Restart

Create Graph

Resource ID: ELO1205890

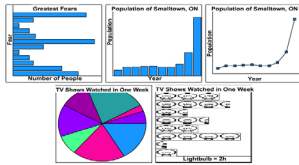
Build understanding of the relationships between theoretical and experimental probability by collecting data and interpreting the results of probability simulations involving dice, spinners and coin tossing.

Show Me the Data

Instructions

Show Me the Data

Show Me The Data



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Next

Resource ID: ELO1149550

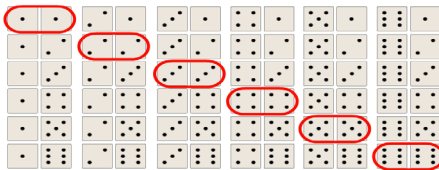
Build understanding of different means of displaying data by viewing an interactive tutorial on line graphs, bar graphs, circle graphs and pictographs, their descriptions and usages. Practise interpolation by answering questions related to a variety of graphs.

What are The Chances?

Instructions

What are The Chances?

If you roll two dice there are 36 different possible outcomes.



There are 6 sets of doubles.

Back

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Next

Resource ID: ELO1149560

Build understanding of the difference between experimental and theoretical probability by completing a dice rolling experiment.

Personal Finance

Activity

Description

A Budget for Ms. Ima Riche

Instructions

Budget for Ms. Ima Riche

Income	Expenses
\$3500.00	Gas \$200.00
	Food \$300.00
	Utilities \$150.00
	Car & Insur. \$100.00
	Rent \$500.00
	Bank Loan \$117.00
	Variable:
Total	\$3500.00
	\$3117.00
My next fixed expense is my bank loan which is \$117 per month.	

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Next

Resource ID: ELO1149580

Build understanding of budgeting by creating a balanced budget sheet that takes into account both fixed and variable expenses.

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Ontario Educational Resources Bank (OERB) Activities

Personal Finance (continued)

Activity

I Need a Real Estate Agent

CASE STUDY 1
 Vince and Angela would like to rent a house. They have budgeted \$1200/month for the rent and another \$200 for utilities. They have two dogs so they need a house with a back yard. Vince fixes his own car, so he needs a house with a garage. Angela does not drive, so she needs the house to be near major bus routes.

These are the possible choices for Case Study 1. After you have read carefully and checked so what you have in the back window you will click on your selection at the bottom of the page. If you receive a check mark your pick was correct otherwise it will say please try again.

Possible choices:

\$1200/mo.
 3 bedroom apartment for rent, walk to school, downtown location, full gym & pool in 1840.

\$1750/mo.
 House for rent near school & downtown location, 2 car garage, walk to school.

\$1750/mo.
 20% down payment required, 2 bedroom house with great back yard & pool, 2 car garage, close to school, proximity to bus with office.

Restart Back Next

Description

Build understanding of the factors to consider when selecting accommodation by role playing as a real estate agent and matching clients to an appropriate housing choice.

Resource ID: ELO1205900

Description

Practise deciphering abbreviations related to rental accommodations by completing a matching activity.

Activity

Quiz Game

Drag the correct abbreviations onto the meaning.

1 bdrm.

Prkg

Condo

Lndry. Facil

A/C

No smoke/pet

+ util

Appl.

Avail Immed.

First and Last

Condominium

Restart

Resource ID: ELO1205940

Description

Build understanding of factors to consider when renting by viewing the responses to frequently asked questions related to renting. Practise applying this knowledge by completing a quiz.

Activity

Renting: What is it All About?

Instructions Renting

Renting: What is it all about?
 Most commonly asked questions from first time renters.

How much should I pay for rent?

What is a deposit?

What other costs are included in renting?

Who is responsible for maintenance of the apartment?

Can I hold back rent for repairs that need to be made by the landlord?

When can the Landlord enter my apartment?

How do I terminate the lease?

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Resource ID: ELO1149570

Description

Build understanding of tax returns by role playing as a tax accountant and completing a personal return for a client.

Activity

Tax Accountant

Great job in reviewing the steps to complete an income tax return. Now read through the following case study then complete an income tax return for Clarence. Please the "Start Tax Return" button when you are ready to begin.

Clarence is a landscape designer. He works for Parks Canada and is working on a project to introduce native plants in Southern Ontario. She is ready to file her income tax return and needs your help. Her financial information for the tax year is as follows.

Name:	Clarence Smith
Address:	111 Blue Road, Alpha, Ontario, S1W 2Z3
Date of Birth:	80-11-05
Marital Status:	Single
Social Insurance Number:	111 111 111
Income from all sources:	
Parks Canada	\$32,118.00
Lawn Care	\$7,200.00
Deductions: Union dues	\$200.00
Tax credits:	
Basic personal amount	\$8,600
Medical expenses	\$210
Donations and gifts:	
-Charity	\$250
-Parish Church	\$375
Tuition and education amount	
four months of part-time study	\$2,500.00
Income tax deducted per T4 slips	\$6,995.00

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Resource ID: ELO1205920

Description

Build understanding of tax returns by role playing as a tax accountant and completing a personal return for a client.

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Ontario Educational Resources Bank (OERB) Activities

Personal Finance (continued)

Activity

Description

Taxes for Mr. Smith

Resource ID: ELO1149590

Build understanding of the preparation required to complete a tax return by summarizing the key information provided for an individual.

You are the Financial Advisor!

Seamus' Budget Worksheet	
Income	\$980
Expenses	
Food	
Transportation	
Rent	
Cell phone	
Clothing	
Entertainment	
Savings	
Charitable Donations	
Total Expenses	

You will now be given the financial information on Seamus. This financial information will be a summary of his income and expenses for one month. Click on the first expense 'Food'. Watch what you are suppose to do!

Previous

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Resource ID: ELO1205880

Build understanding of budgeting by role playing as a financial advisor and developing balanced budgets for a variety of clients.

Applications of Measurement

Activity

Description

Chef Charlotte's Dilemma

Resource ID: ELO1149600

Build understanding of systems of measurement by converting recipe amounts from imperial to metric and by converting length measurements within the metric system for a building project.

Chef Charlotte's Dream Kitchen

Resource ID: ELO1149610

Build understanding of area and volume by solving problems related to a remodelling project.

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Ontario Educational Resources Bank (OERB) Activities

Applications of Measurement (continued)

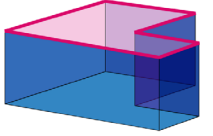
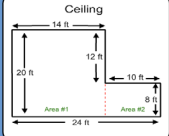
Activity

Description

Planning a Room Makeover!

Area #1	Area #2	Calculations	Total Area
Length × Width	Length × Width	Area #1 + Area #2	
Ceiling 20 × 14	10 × 8	280 sq ft + 80 sq ft	360 sq ft

Close

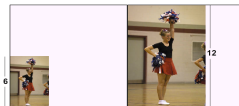



Wall 1 Wall 3 Wall 5 Ceiling
 Wall 2 Wall 4 Wall 6 Floor

Resource ID: ELO1205910

Build understanding of composite areas by calculating the areas of the walls, ceiling and floor of a room and then using these calculations to determine a cost estimate for the materials needed for a makeover.

The World of Design



area = 24 inches² area = 96 inches²

The area of the original 4 by 6 photo was 24 square inches.
 The area of the new 8 by 12 photo is 96 square inches.
 The area of the new photo is four times larger than the original.
 Let's investigate what happens if we triple the dimensions of the photo.



Restart

Back

Next

Resource ID: ELO1149620

Build understanding of proportional reasoning by viewing an illustrated tutorial of how to resize photographs. Practise applying this knowledge by completing a quiz.