Mathletics NWEA Australian Curriculum v8.4 (RIT bands)

Home

Working with integers diffion and subtraction to 20 and subtract to 100 - count on & bac and skip count to multiply

s and au

Skill Quests

decimals and percentage

Skill Quests

Well done 👏

New Courses

Statistics and Probability



May, 2022

189–200	3
1. Chance	3
2. Data representation and interpretation	3
201–210	4
1. Chance	4
2. Data representation and interpretation	4
211–217	5
1. Chance	5
218–221	6
1. Chance	6
2. Data representation and interpretation	6
222–226	7
1. Chance	7
2. Data representation and interpretation	7
227–228	8
1. Chance	8
2. Data representation and interpretation	8

1. Chance

Outcome	Quests	Content
ACMSP067 Conduct chance	Conducting chance	Conducting chance
experiments, identify and describe	experiments	experiments
possible outcomes and recognise		
variation in results		

Outcome	Quests	Content
ACMSP068 Identify questions or	Data sources and	Introducing the statistical
issues for categorical variables.	collection	investigation process
Identify data sources and plan		Category data
methods of data collection and		
recording		
ACMSP069 Collect data, organise	Collecting and	Statistical investigations
into categories and create displays	organising data	Representing and interpreting
using lists, tables, picture graphs		data displays
and simple column graphs, with		
and without the use of digital		
technologies		
ACMSP070 Interpret and compare	Data displays	Comparing data displays
data displays		

1. Chance

Outcome	Quests	Content
ACMSP092 Describe possible	Chance events	Describing the chance of
everyday events and order their		events occurring
chances of occurring		
ACMSP093 Identify everyday	Non-simultaneous	Exploring non-simultaneous
events where one cannot happen if	everyday events	everyday events
the other happens		
ACMSP094 Identify events where	Independent and	Independent and dependent
the chance of one will not be	dependent events	events
affected by the occurrence of the		
other		

Outcome	Quests	Content
ACMSP095 Select and trial	Methods of data	Surveys and sorting data
methods for data collection,	collection	
including survey questions and		
recording sheets		
ACMSP096 Construct suitable data	Constructing suitable	Column graphs using many-
displays, with and without the use	data displays	to-one correspondence
of digital technologies, from given		Picture graphs with many-to-
or collected data. Include tables,		one correspondence
column graphs and picture graphs		
where one picture can represent		
many data values		
ACMSP097 Evaluate the	Evaluating and	Evaluating and comparing
effectiveness of different displays in	comparing data	data displays
illustrating data features including	displays	
variability		

1. Chance

Outcome	Quests	Content
ACMSP116 List outcomes of	Outcomes of chance	Outcomes of chance
chance experiments involving	experiments	experiments
equally likely outcomes and		
represent probabilities of those		
outcomes using fractions		
ACMSP117 Recognise that	Probability	Probabilities from 0 to 1
probabilities range from 0 to 1		
ACMSP118 Pose questions and	Categorical and	Categorical and numerical
collect categorical or numerical	numerical data	data
data by observation or survey		
ACMSP119 Construct displays,	Constructing data	Constructing data displays
including column graphs, dot plots	displays	
and tables, appropriate for data		
type, with and without the use of		
digital technologies		
ACMSP120 Describe and interpret	Describing and	Describing and interpreting
different data sets in context	interpreting data sets	data sets

1. Chance

Outcome	Quests	Content
ACMSP144 Describe probabilities	Probability: fraction,	Probability as a fraction,
using fractions, decimals and	decimal, percent	decimal or percent
percentages		
ACMSP145 Conduct chance	Chance experiments	Chance experiments
experiments with both small and		
large numbers of trials using		
appropriate digital technologies		
ACMSP146 Compare observed	Frequency/fairness in	Frequency/fairness in chance
frequencies across experiments	chance experiments	experiments
with expected frequencies		

Outcome	Quests	Content
ACMSP147 Interpret and	Interpreting/representing/comparing	Two-way tables
compare a range of data	data	Side-by-side column
displays, including side-by-		graphs
side column graphs for two		Comparing & selecting
categorical variables		bivariate data displays
ACMSP148 Interpret	Interpreting & evaluating secondary	Interpreting & evaluating
secondary data presented in	data	secondary data
digital media and elsewhere		

1. Chance

Outcome	Quests	Content
ACMSP167 Construct sample	Chance experiments	Language of chance
spaces for single-step experiments	and sample spaces	experiments
with equally likely outcomes		Sample spaces
		Chance experiments
ACMSP168 Assign probabilities to	Probability	Language of probability
the outcomes of events and		Understanding basic
determine probabilities for events		probability

Outcome	Quests	Content
ACMSP169 Identify and investigate	Collecting and	Issues with data from primary
issues involving numerical data	interpreting data	& secondary sources
collected from primary and		Collecting and interpreting
secondary sources		data
ACMSP170 Construct and compare	Representing data	Tallies and frequency
a range of data displays including		distribution tables
stem-and-leaf plots and dot plots		Frequency histograms and
		polygons
		Frequency histograms and
		polygons: grouped data
		Dot plots
		Ordered stem-and-leaf plots
		Divided bar graphs
		Sector graphs
		Line graphs
		Interpreting a variety of
		different graphs
ACMSP171 Calculate mean,	Mean, median, mode	Calculating the mean
median, mode and range for sets of	and range	Median mode and range
data. Interpret these statistics in the		
context of data		
ACMSP172 Describe and interpret	Using mean, median,	Using mean, median, mode to
data displays using median, mean	mode to analyse data	analyse data displays
and range	displays	

1. Chance

Outcome	Quests	Content
ACMSP204 Identify complementary events and use the sum of	Complementary events	Complementary events
probabilities to solve problems		
ACMSP205 Describe events using	Language of	Language of probability to
language of 'at least', exclusive 'or' (A or B but not both), inclusive 'or'	probability to describe events	describe events
(A or B or both) and 'and'.		
ACMSP292 Represent events in	Venn diagrams and	Understanding and
two-way tables and Venn	Two-Way tables	constructing Venn diagrams
diagrams and solve related problems		Using Venn diagrams to solve problems
		Interpreting and constructing
		two-way tables
		Two-way tables and Venn
		diagrams

Outcome	Quests	Content
ACMSP284 Investigate techniques	Collecting data	Collecting data
for collecting data, including		The relationship between a
census, sampling and observation		sample & the population
ACMSP207 Investigate the effect of	Clusters, gaps and	Clusters, gaps and outliers in
individual data values, including	outliers in data	data
outliers, on the mean and median		



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