Preview - Information

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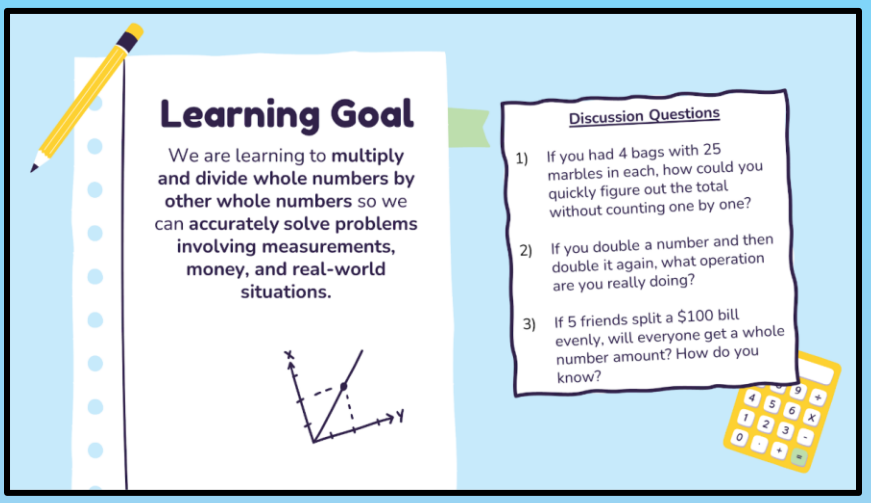
Google Slides Lessons Preview

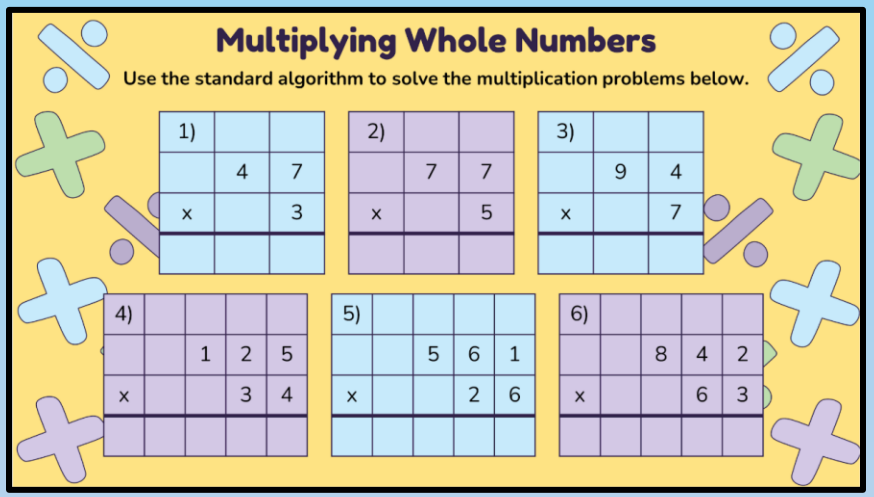
Alberta Math Curriculum
Number– Grade 8

3-Part Lesson Format

Part 1 – Minds On!

- Learning Goals
- Discussion Questions
- Quotes
- And More!





Part 2 – Action!

- Writing
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- Exit Cards
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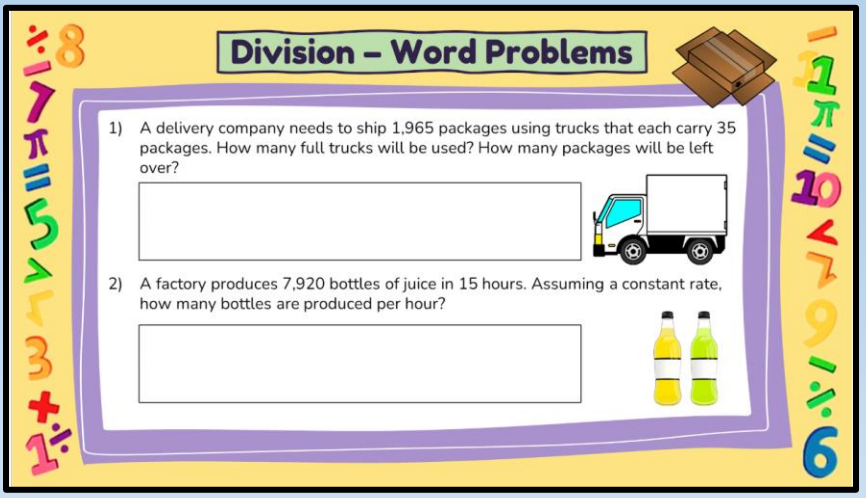

Alberta Math Curriculum
Number– Grade 8

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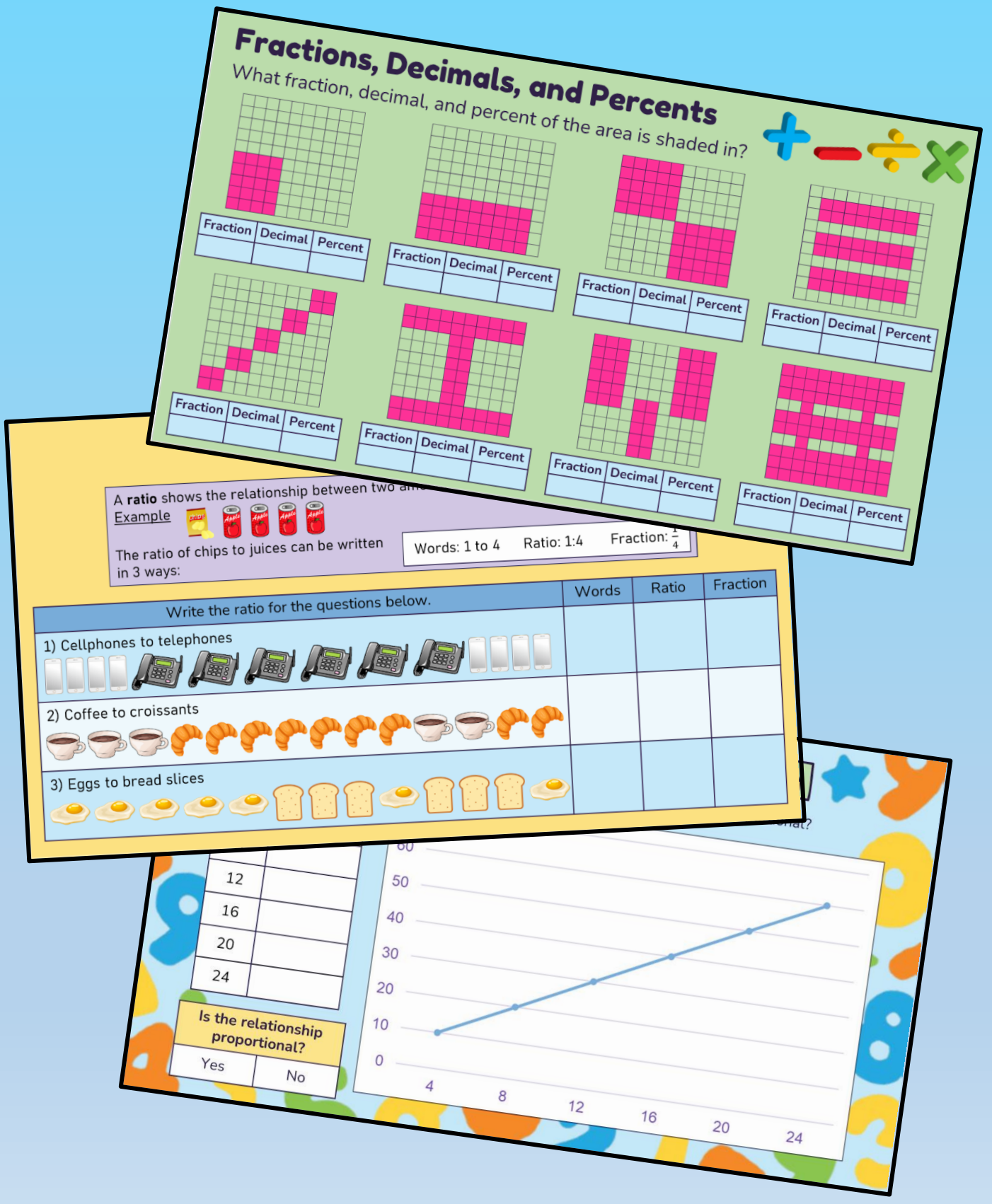

Google Slides Lessons Preview

Alberta Math Curriculum Statistics – Grade 8

3-Part Lesson Format

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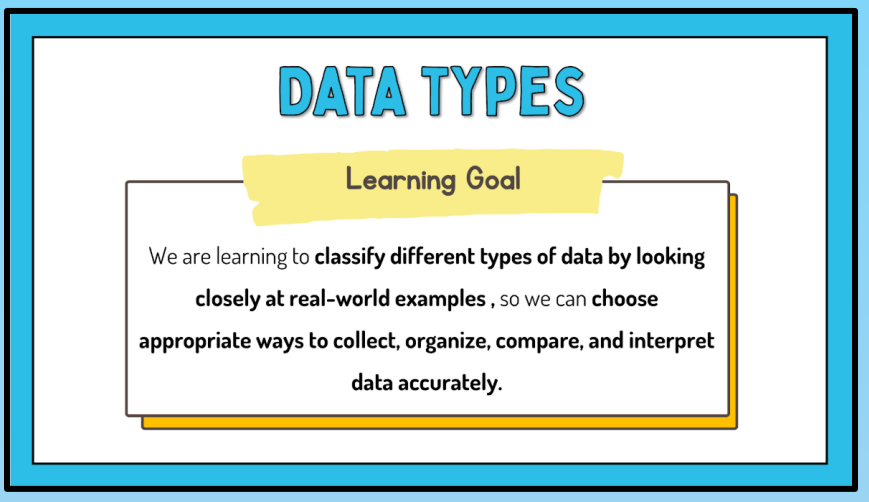

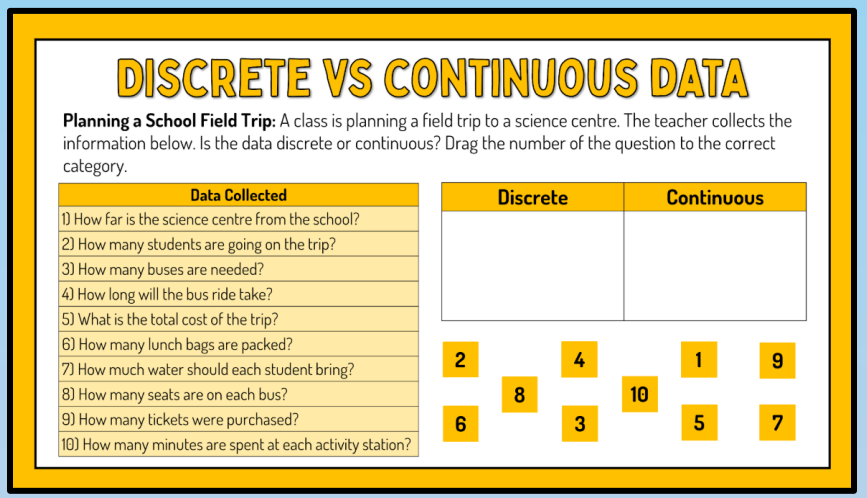

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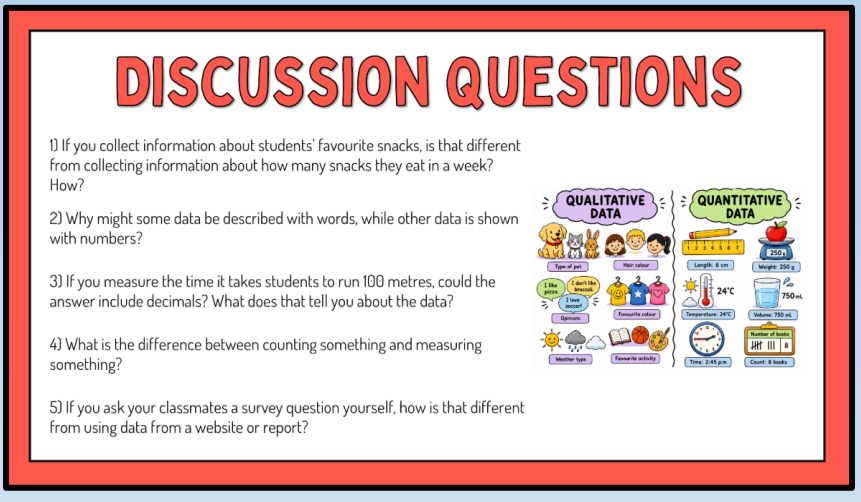


Alberta Math Curriculum
Statistics – Grade 8

FINDING MISSING DATA POINT USING MEAN

1 2 3 4 5 6 7 8 9 0 %

Find the missing data point for the word problems below.

1) The average number of hours a student studied over 5 days was 2.8 hours. The hours studied each day are shown below, but one day is missing. **Find the missing number of hours studied on Thursday.**

Day	Monday	Tuesday	Wednesday	Thursday	Friday
Hours	3.0	2.5	2.0	?	3.5

2) The average daily number of steps taken over 7 days was **8,000 steps**. The steps for each day are listed below, but one day is missing. **Find the missing number of steps for Day 4.**

Day	1	2	3	4	5	6	7
Steps	7500	8200	7900	?	8400	8100	7800

3) A swimmer's average lap time over 6 laps was **55.5 seconds**. The lap times are shown below, but one value is missing. **Find the missing lap time.**

Laps	1	2	3	4	5	6
Time(S)	54.2	56.1	55.0	577.3	53.9	?

...R AND THE MEAN

...out any outliers in the datasets below.

1 2 3 4 5 6 7 8 9 0

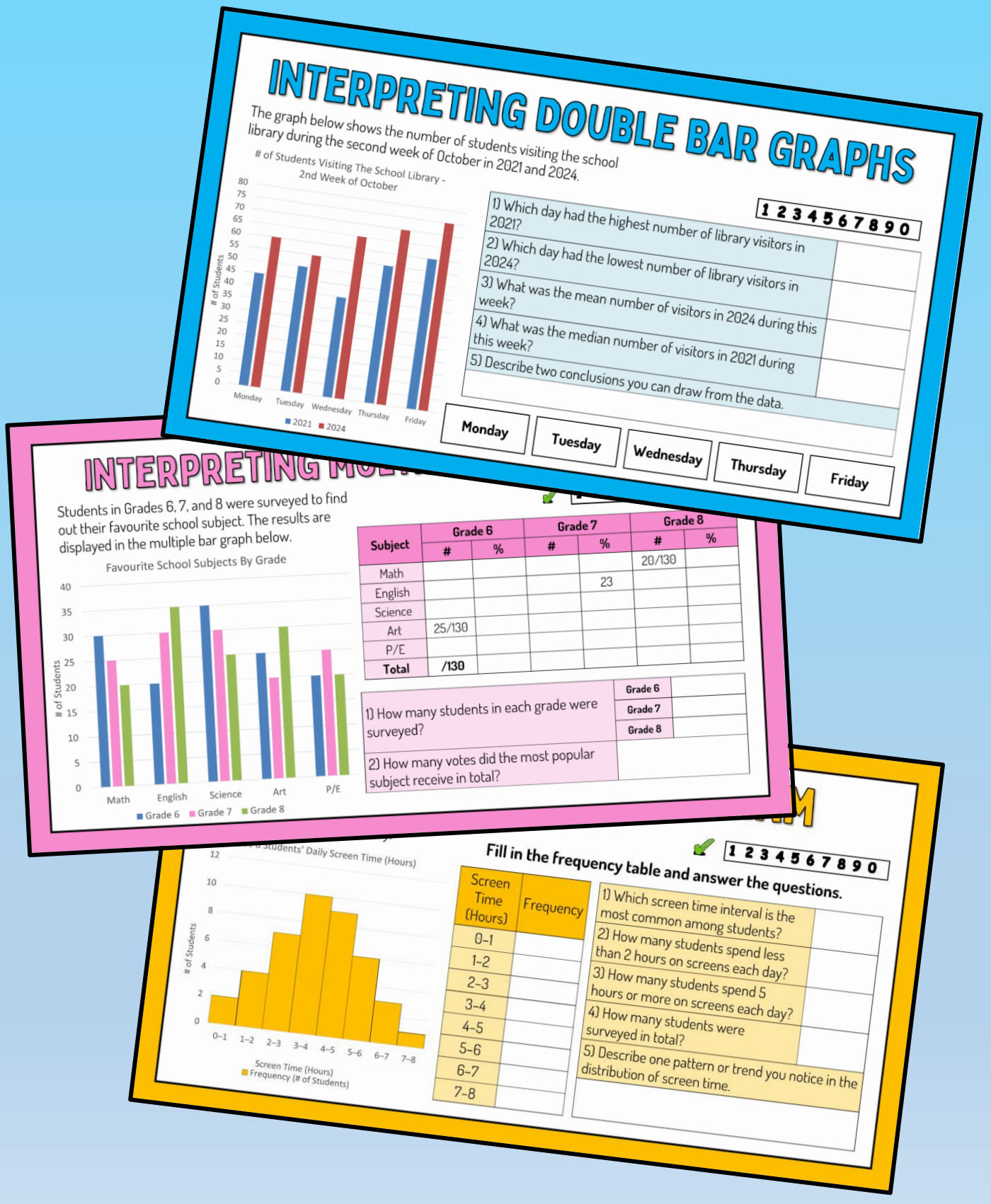
42, 39, 41, 38, 40, 120, 37 Outlier	215, 222, 218, 220, 217, 305, 219 Outlier	6.2, 6.5, 6.1, 6.3, 15.8, 6.4 Outlier
-12, -15, -14, -13, -16, -45, -14 Outlier	0.8, 1.1, 0.9, 1.0, 3.7, 1.2 Outlier	55, 58, 60, 57, 59, 102, 56 Outlier
18, 20, 19, 21, 22, 85, 20 Outlier	3.5, 3.7, 3.6, 3.8, 9.2, 3.4 Outlier	140, 145, 150, 148, 147, 300, 149 Outlier

...PES

Label the names of the graphs below.

- Histogram
- Multiple Bar Graph
- Bar Graph
- Scatter Plot
- Circle Graph
- Broken Line Graph

Alberta Math Curriculum Statistics – Grade 8



Google Slides Lessons Preview

Alberta Math Curriculum
Shape and Space – Grade 8

3-Part Lesson Format

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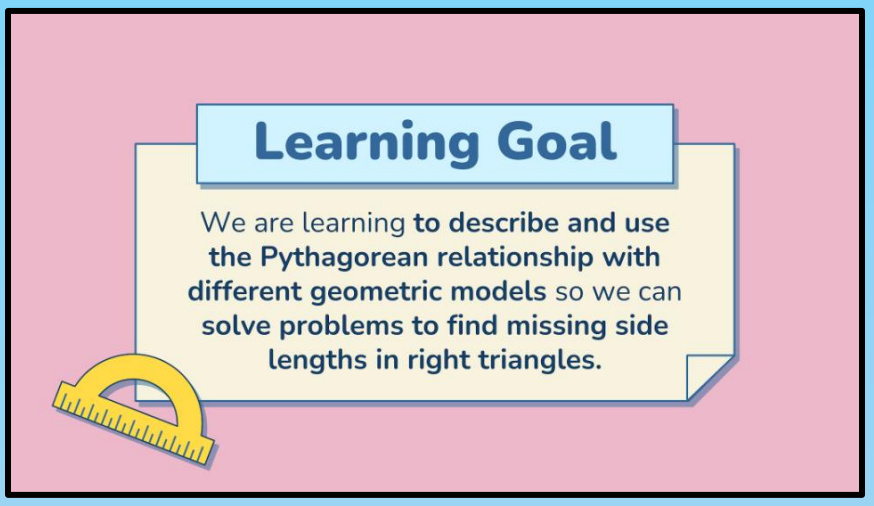
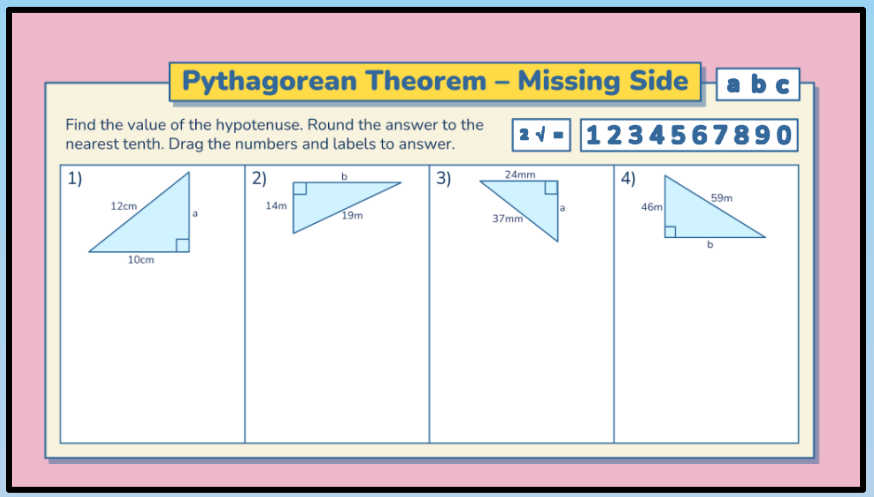
- And More!





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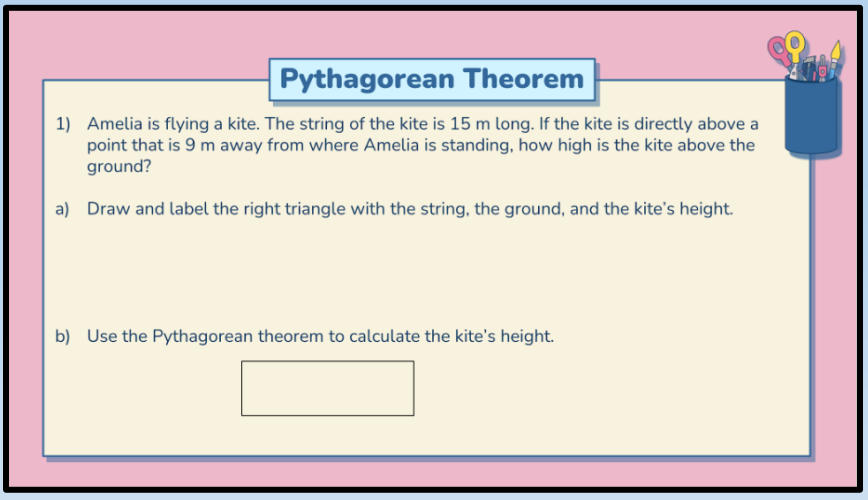
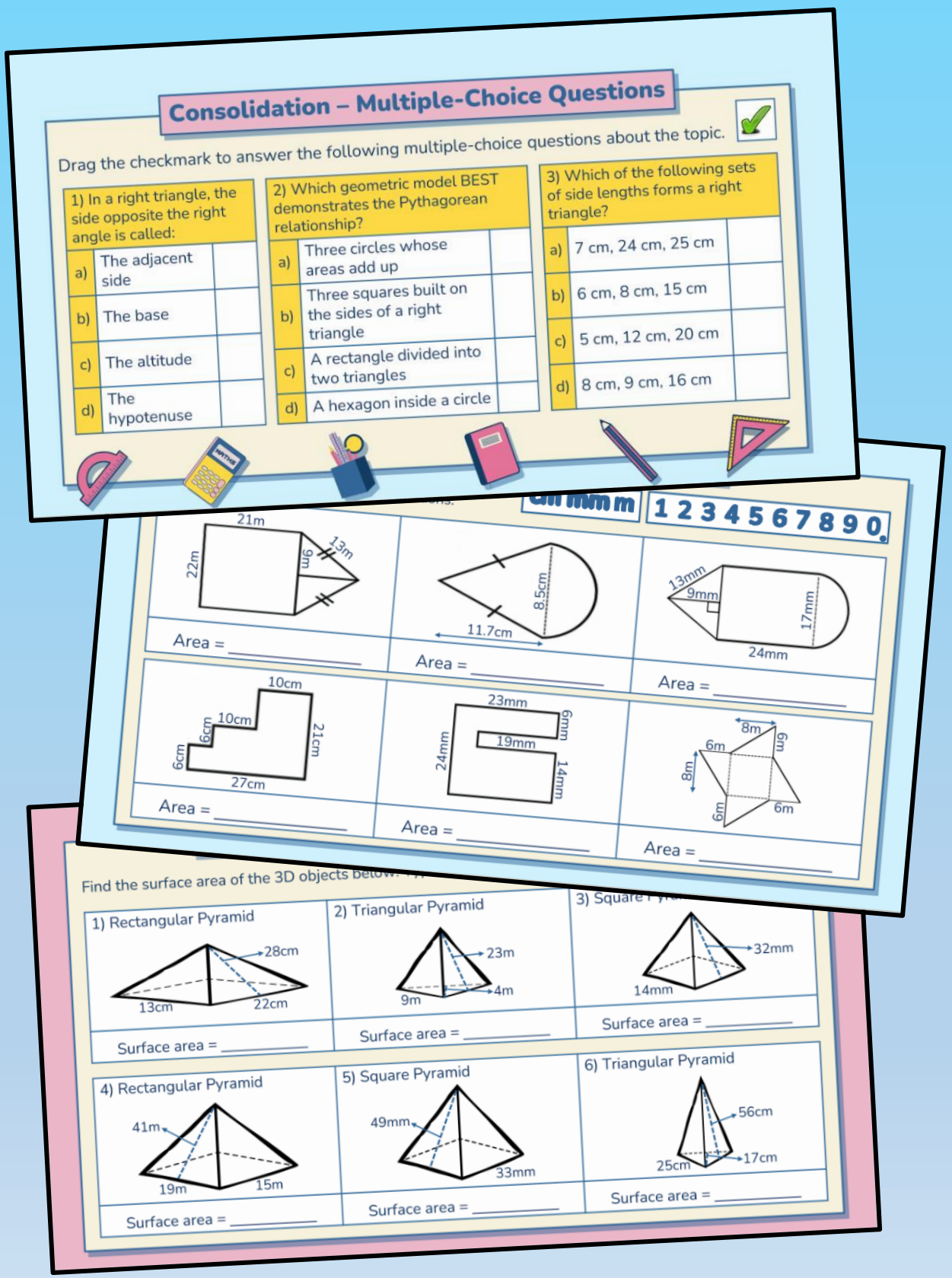


Alberta Math Curriculum
Shape and Space – Grade 8



Consolidation – Multiple-Choice Questions

Drag the checkmark to answer the following multiple-choice questions about the topic.

1) In a right triangle, the side opposite the right angle is called:

a) The adjacent side
b) The base
c) The altitude
d) The hypotenuse

2) Which geometric model BEST demonstrates the Pythagorean relationship?

a) Three circles whose areas add up
b) Three squares built on the sides of a right triangle
c) A rectangle divided into two triangles
d) A hexagon inside a circle

3) Which of the following sets of side lengths forms a right triangle?

a) 7 cm, 24 cm, 25 cm
b) 6 cm, 8 cm, 15 cm
c) 5 cm, 12 cm, 20 cm
d) 8 cm, 9 cm, 16 cm

cm mm m 1 2 3 4 5 6 7 8 9 0

21m, 22m, 9m, 13m — Area = _____

8.5cm, 11.7cm — Area = _____

13mm, 9mm, 17mm, 24mm — Area = _____

10cm, 10cm, 6cm, 6cm, 21cm, 27cm — Area = _____

23mm, 9mm, 19mm, 24mm, 14mm — Area = _____

8m, 6m, 8m, 6m, 6m — Area = _____

Find the surface area of the 3D objects below.

1) Rectangular Pyramid

Surface area = _____

2) Triangular Pyramid

Surface area = _____

3) Square Pyramid

Surface area = _____

4) Rectangular Pyramid

Surface area = _____

5) Square Pyramid

Surface area = _____

6) Triangular Pyramid

Surface area = _____

Alberta Math Curriculum
Shape and Space – Grade 8

Google Slides Lessons Preview

Alberta Math Curriculum
Patterns & Relations – Grade 8

3-Part Lesson Format

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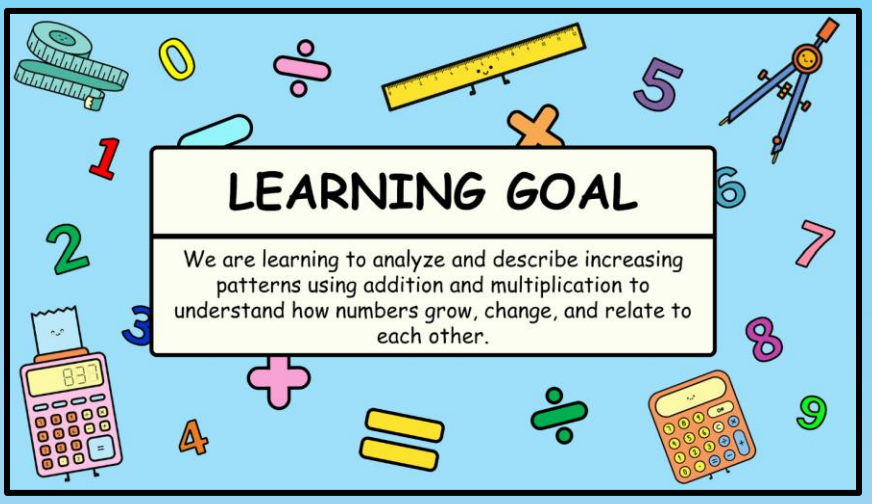

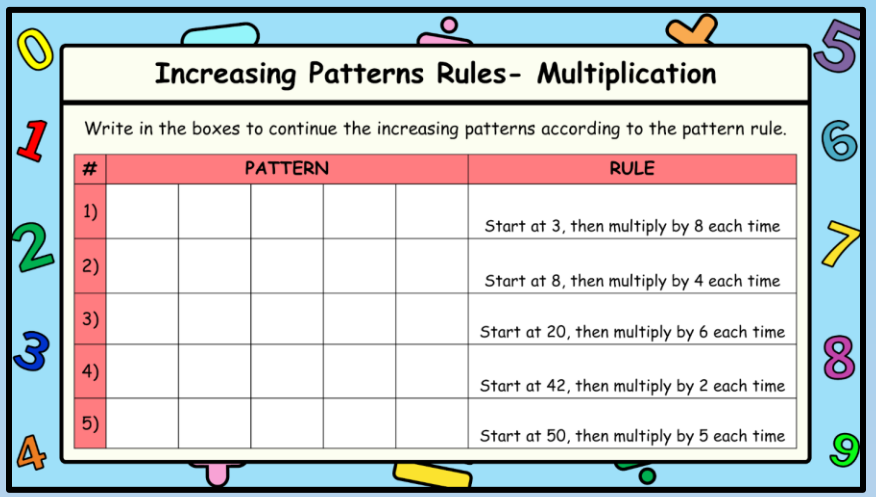

Increasing Patterns Rules- Multiplication

Write in the boxes to continue the increasing patterns according to the pattern rule.

#	PATTERN					RULE
1)						Start at 3, then multiply by 8 each time
2)						Start at 8, then multiply by 4 each time
3)						Start at 20, then multiply by 6 each time
4)						Start at 42, then multiply by 2 each time
5)						Start at 50, then multiply by 5 each time

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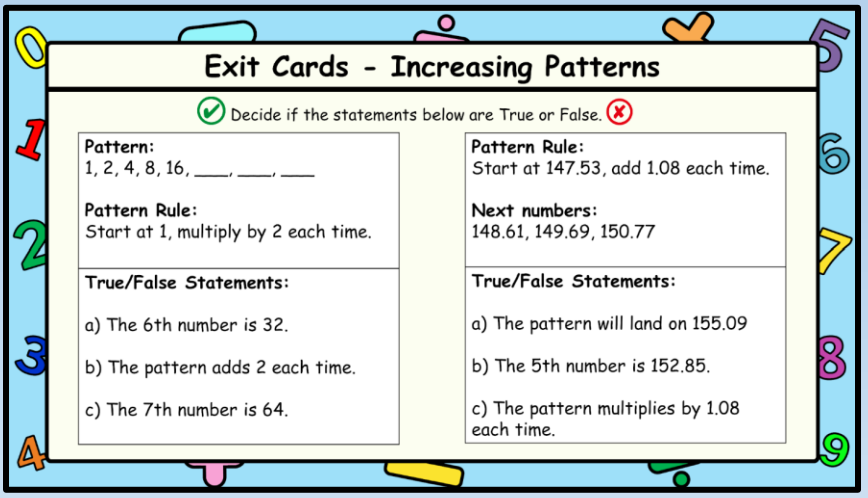


Exit Cards - Increasing Patterns

Decide if the statements below are True or False.

Pattern:
1, 2, 4, 8, 16, ___, ___, ___

Pattern Rule:
Start at 1, multiply by 2 each time.

True/False Statements:

a) The 6th number is 32.

b) The pattern adds 2 each time.

c) The 7th number is 64.

Pattern Rule:
Start at 147.53, add 1.08 each time.

Next numbers:
148.61, 149.69, 150.77

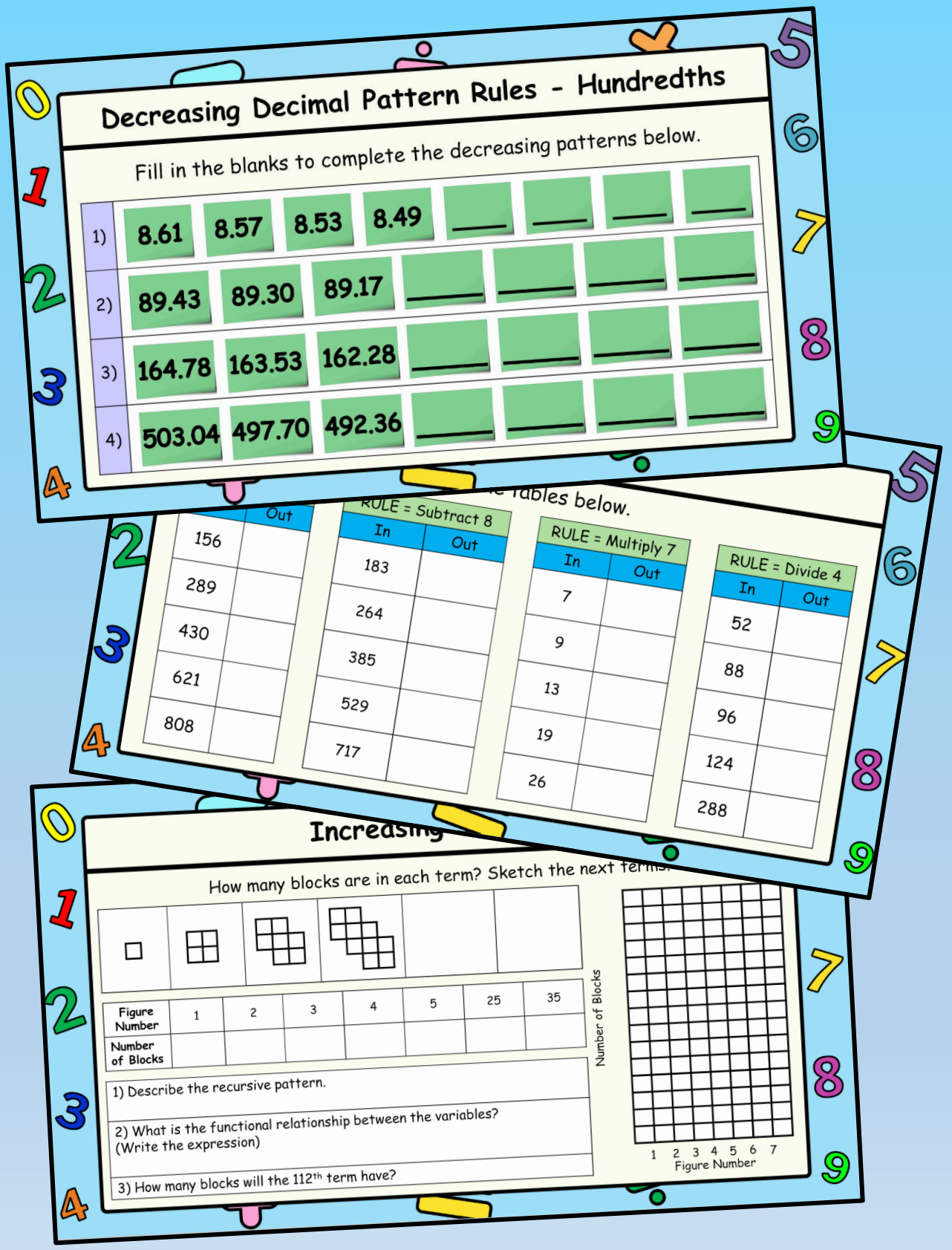
True/False Statements:

a) The pattern will land on 155.09

b) The 5th number is 152.85.

c) The pattern multiplies by 1.08 each time.

Alberta Math Curriculum
Patterns & Relations – Grade 8



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Patterns & Relations – Grade 8