

# Released Questions with Provincial Data

## Mathematics

### In This Resource:

- Details of the Assessment
- Results Reported
- Definitions of the Categories of Knowledge and Skills
- Suggested Uses for This Resource
- Questions
- Questions with Answers and Provincial Data



This resource is provided to support educators with the mathematics component of the EQAO Assessment of Reading, Writing and Mathematics, Junior Division. Each mathematics question on the assessment is mapped to a category of knowledge and skills and an overall and a specific expectation in *The Ontario Curriculum, Grades 1-8: Mathematics (2020)*. This resource includes the definitions of the categories of knowledge and skills as well as examples of assessment questions. Detailed information about each question, including the overall expectation and category of knowledge and skills to which the question is mapped, the correct answer and provincial data, are provided. For more information about the assessment design, refer to the Framework at [www.eqao.com](http://www.eqao.com).

## DETAILS OF THE ASSESSMENT

The EQAO Assessment of Reading, Writing and Mathematics, Junior Division, is an online assessment completed by students at the end of Grade 6. The mathematics component of the assessment uses a multi-stage computer adaptive testing model that adapts to the individual student's performance as the student progresses through the stages of the assessment (e.g., based on a student's performance in Stage 1, the student will be routed to a set of questions that is overall easier or more difficult in Stage 2). Though students are routed to different question sets, outcomes are put on the same scale, and overall levels of achievement are comparable.

The mathematics component assesses the knowledge and skills that are defined in the expectations found in *The Ontario Curriculum, Grades 1–8: Mathematics (2020)*. The questions assess students' knowledge and skills in these strands:

- Number
- Algebra
- Data
- Spatial Sense
- Financial Literacy

Although the assessment does not measure the content in the Social-Emotional Learning (SEL) Skills in Mathematics and the Mathematical Processes strand, students may be required to apply mathematical processes while completing the assessment.

Each question on the assessment is mapped to an overall and a specific curriculum expectation. Each question is also mapped to one of these categories of knowledge and skills:

- Knowledge and Understanding (**KU**)
- Application (**AP**)
- Thinking (**TH**)

Questions in the mathematics component do not assess the Communication category of knowledge and skills.

During each stage of the assessment, students complete questions mapped to each of the three categories of knowledge and skills assessed. The category assigned to each question assumes that students have been taught the knowledge and skills outlined in the Grade 6 mathematics curriculum, as the EQAO assessment is completed near the end of Grade 6.

Regardless of how students are routed as they progress through the stages of the assessment, students complete the same number of questions from each of the various strands assessed, as the assessment follows a blueprint. The blueprint, which can be found in the *Framework*, defines how many questions a student will complete from each strand. This makes the assessment comparable from year to year. (For more information, see [www.eqao.com](http://www.eqao.com).)

## RESULTS REPORTED

The EQAO Assessment of Reading, Writing and Mathematics, Junior Division, is a standards-referenced large-scale assessment based on the expectations and standards (levels of achievement) for student proficiency in *The Ontario Curriculum*. EQAO reports an overall level of achievement in mathematics for each student. EQAO does not provide results by strand or by category of knowledge and skills at the student level, as each student does not complete enough questions mapped to each strand or skill to report on each accurately. However, through the EQAO secure reporting tool, the agency provides reports by strand and skill at the school, board and provincial levels for schools and boards to use for improvement planning.

## **DEFINITIONS OF THE CATEGORIES OF KNOWLEDGE AND SKILLS**

EQAO has adapted the definitions of the three categories below from the achievement chart for mathematics found in the Ontario mathematics curriculum. This section outlines the definitions EQAO uses to determine the category for each question on the assessment.

### **Knowledge and Understanding**

A question is mapped to Knowledge and Understanding if in order to answer the question students must demonstrate only

- subject-specific content (knowledge) and/or
- comprehension of its meaning and significance (understanding).

These questions assess basic knowledge and/or understanding of concepts.

### **Application**

A question is mapped to Application if in order to answer the question students must either

- select the appropriate tool or
- get the necessary information and “fit” it to the problem.

The category that a question is mapped to may change from Knowledge and Understanding to Application if a context is added or if a tool required to answer the question is not provided.

### **Thinking**

A question is mapped to Thinking if in order to answer the question students must either

- select and sequence a variety of tools or
- demonstrate a critical thinking process (e.g., reasoning).

Students may need to make a plan to answer these questions.

## **PREVIOUS EDITIONS**

For additional released questions, please refer to the previous editions of this resource:

[January 2025](#), [November 2023](#).

## SUGGESTED USES FOR THIS RESOURCE

Here is a suggested list of how the example questions can be used in the classroom:



Use questions without including the answer options. Students can answer the question and then discuss the steps required and other possible answers, including those arrived at through common errors or misconceptions. Discuss whether there are multiple methods that can be used to answer the question. Students can then compare their answer to the given options.



Use technology in the classroom to have students record answers instantly, which will allow for discussion of correct answers and the common errors or misconceptions associated with the incorrect options. The discussion can lead to a deeper understanding of concepts and assist students in correcting their own misconceptions.



Use questions as part of a pre- and post-assessment on a topic to show students their improved understanding within a unit.



Use questions when spiralling as a method to revisit topics.



Encourage students to use manipulatives, and model how to use them effectively. For example, fraction strips or towers can be used with questions mapped to expectations in the Number or Data strand.



Analyze the provincial data for each question and consider how students at each level responded. Consider how the provincial data relates to how your students responded to the question. Review each answer option and how different responses can demonstrate potential strengths and areas for improvement.

# QUESTIONS

These released questions are from the mathematics component of the junior-division assessment. This section provides the overall expectation and the category of knowledge and skills for each question.

## B. NUMBER

### B1. Number Sense

demonstrate an understanding of numbers and make connections to the way numbers are used in everyday life

**1** Which number is between 2.354 and 2.456?

**KU**

A 2.345

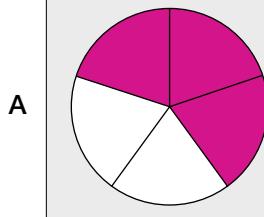
B 2.402

C 2.457

D 2.520

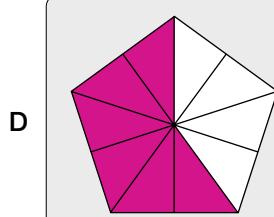
**2** Select the option that is **not** equal

**AP** to 6 tenths.



B  $\frac{6}{10}$

C 0.06



## B2. Operations

use knowledge of numbers and operations to solve mathematical problems encountered in everyday life

**3** Select the **TWO** prime numbers.

**KU**

A 11

B 21

C 24

D 42

E 43

**4** A jar contains 200 marbles, and 5% of the marbles are blue.

How many marbles are blue?

A 5 marbles

B 10 marbles

C 20 marbles

D 25 marbles

## B2. Operations (continued)

**5** Lucas types 360 words in 12 minutes.

**TH** Greg types twice as fast as Lucas.

How many words per minute does Greg type?

A 15 words per minute

B 30 words per minute

C 60 words per minute

D 180 words per minute

## C. ALGEBRA

### C1. Patterns and Relationships

identify, describe, extend, create, and make predictions about a variety of patterns, including those found in real-life contexts

**6** Four term values of a growing pattern are shown.

AP

<b>Term number</b>	5	7	9
<b>Term value</b>	11	15	19



What is the term number when the term value is 27?

A 11

B 13

C 15

D 23

## C1. Patterns and Relationships (continued)

7 This table shows a starting number and a rule for three patterns.

TH

	Pattern P	Pattern Q	Pattern R
Starting number	1	66	4
Rule	Add 5	Subtract 10	Multiply by 2

Which number is in all three patterns?

A 8

B 16

C 26

D 36

## C2. Equations and Inequalities

demonstrate an understanding of variables, expressions, equalities, and inequalities, and apply this understanding in various contexts

**8** What value of  $x$  makes this equation true?

**KU**  $7x = 28$

A 3

B 4

C 21

D 35

**9** In which equation does  $p$  have the greatest

**TH** value?

A  $85 + p = 125$

B  $70 - p = 35$

C  $5p = 215$

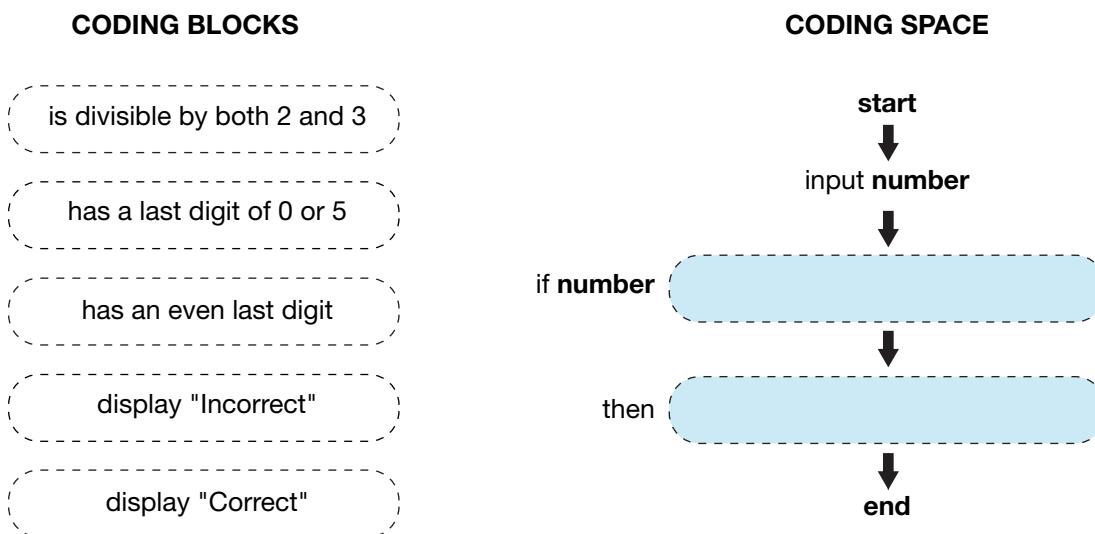
D  $3p = 132$

### C3. Coding

solve problems and create computational representations of mathematical situations using coding concepts and skills

**10** A student wants to create code that will determine whether a whole number is divisible by 6  
**AP** and then display the word "Correct" if it is divisible.

Drag and drop the missing code to complete the program.



### C4. Mathematical Modelling

Currently there are no EQAO questions mapped to this overall expectation. There are no specific expectations for this overall expectation.

## D. DATA

### D1. Data Literacy

manage, analyse, and use data to make convincing arguments and informed decisions, in various contexts drawn from real life

**11** This table shows the number of bags of popcorn sold at an event during different times in a day.

Time of day	Number of bags of popcorn sold
1:00–2:59	120
3:00–4:59	87
5:00–6:59	113

Which option would **best** represent this data?

- A histogram
- B line plot
- C pictograph
- D multiple-bar graph

## D1. Data Literacy (continued)

**12** The height in centimetres of various plants is shown.

TH

16	21	21	31	32	34	41
----	----	----	----	----	----	----

Drag and drop the numbers that complete each statement about this set of numbers.

16	21	25	28	31	41
----	----	----	----	----	----

The range is  cm.

The median is  cm.

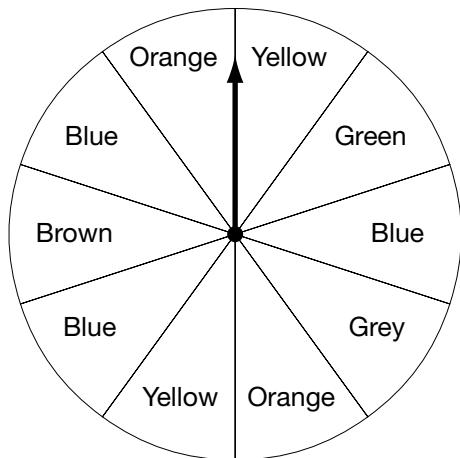
The mean is  cm.

## D2. Probability

describe the likelihood that events will happen, and use that information to make predictions

13 This spinner is divided into 10 equal sections.

AP



The arrow on the spinner is spun.

What is the probability that the arrow will land on yellow?

A 10%

B 20%

C 40%

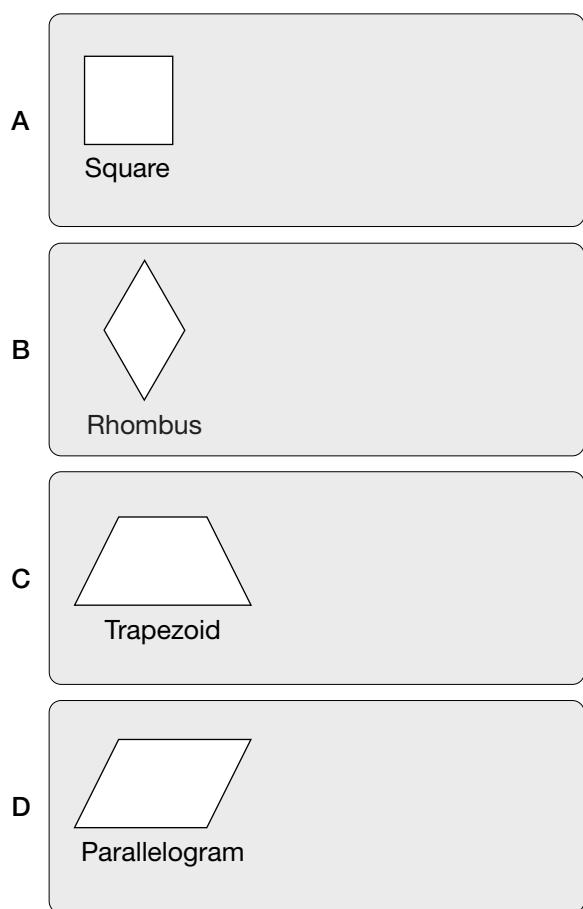
D 80%

## E. SPATIAL SENSE

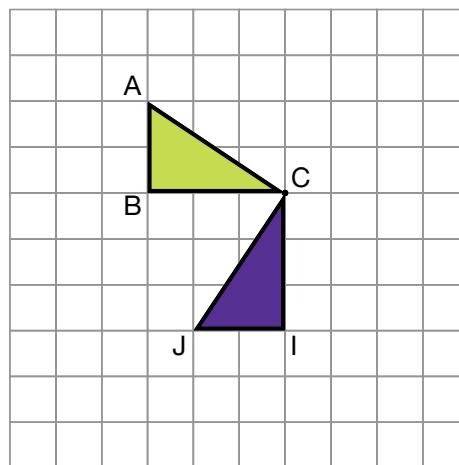
### E1. Geometric and Spatial Reasoning

describe and represent shape, location, and movement by applying geometric properties and spatial relationships in order to navigate the world around them

**14** Which of these shapes has exactly two lines of symmetry?



**15** Which rotation about point C moves  $\triangle ABC$  onto  $\triangle CIJ$ ?



A  $90^\circ$  clockwise

B  $90^\circ$  counterclockwise

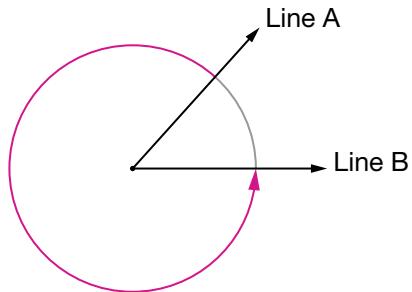
C  $180^\circ$  clockwise

D  $180^\circ$  counterclockwise

## E2. Measurement

compare, estimate, and determine measurements in various contexts

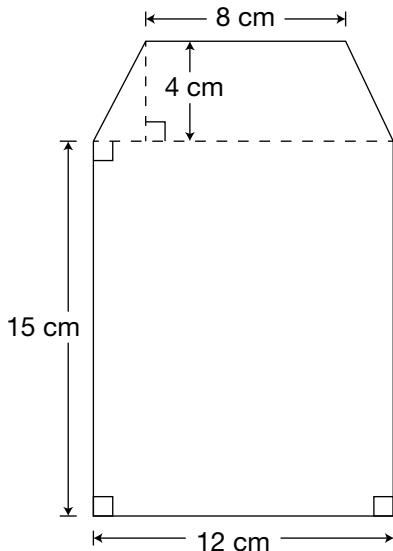
**16** The acute angle between Line A and Line B  
**AP** is  $48^\circ$ .



What is the angle when measuring **counterclockwise** from Line A to Line B?

- A**  $42^\circ$
- B**  $132^\circ$
- C**  $222^\circ$
- D**  $312^\circ$

**17** What is the **total** area of this polygon?  
**TH**



- A**  $180 \text{ cm}^2$
- B**  $212 \text{ cm}^2$
- C**  $220 \text{ cm}^2$
- D**  $228 \text{ cm}^2$

## F. FINANCIAL LITERACY

### F1. Money and Finances

demonstrate the knowledge and skills needed to make informed financial decisions

**18** Which method of payment often has a high  
**KU** interest rate on unpaid balances?

- A** cash
- B** e-transfer
- C** debit card
- D** credit card

## QUESTIONS WITH ANSWERS AND PROVINCIAL DATA

### Sample Data with Observations

In this section, each question is presented with the correct response and its data in a table. This data shows the percentage of students who selected each answer choice by level. The observations that follow each table are provided for consideration as the data in the table is analyzed.

	No Response	A	B	C	D
Below Level 1	4	22	26	26	22
Level 1	1	13	37	29	20
Level 2	0	10	55	22	12
Level 3	0	5	75	14	7
Level 4	0	1	92	4	2

**LEGEND**

0–24	25–49	50–79	80–100
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The correct answer, option B, was selected by

- 26% of all students who received Below Level 1;
- 37% of all students who received Level 1;
- 55% of all students who received Level 2;
- 75% of all students who received Level 3 and
- 92% of all students who received Level 4.

Among all the students who received a Level 3 on the assessment,

- 75% selected the correct answer, option B;
- 5% selected option A;
- 14% selected option C and
- 7% selected option D.

One of the incorrect answers, option C, was selected by 29% of students who received a Level 1 and 22% of students who received Level 2.

### Reminders:

- The percentages in a row for a particular question and a particular level are not provided when the row's sample size is fewer than 49 students. In these cases, ND (not enough data) is shown.
- The percentages in each row may not add up to 100%, due to rounding.
- The legend provided applies to each table with the data.
- For some of the questions in this resource, the data provided shows the percentage of students whose responses were fully correct, partially correct or incorrect at each achievement level.

### Using the Data

There are many things to consider when reviewing the data. It is not possible to know why the students selected the response they did. In a single-selection question with four options, if the percentages in one row (at a specific level) are approximately 25% each, this may demonstrate that many of the students who received the particular level guessed.

## QUESTIONS WITH ANSWERS AND PROVINCIAL DATA (continued)

### B. NUMBER

#### B1. Number Sense

demonstrate an understanding of numbers and make connections to the way numbers are used in everyday life

**1** Which number is between 2.354 and 2.456?

**KU**

A 2.345

B 2.402

C 2.457

D 2.520

#### English-Language Schools

	No Response	A	B	C	D
Below Level 1	1	29	15	24	31
Level 1	0	27	34	19	20
Level 2	0	17	71	7	5
Level 3	0	6	90	2	2
Level 4	ND	ND	ND	ND	ND

#### French-Language Schools

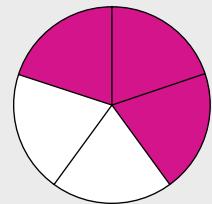
	No Response	A	B	C	D
Below Level 1	ND	ND	ND	ND	ND
Level 1	ND	ND	ND	ND	ND
Level 2	0	19	59	11	11
Level 3	0	7	85	6	2
Level 4	ND	ND	ND	ND	ND

## QUESTIONS WITH ANSWERS AND PROVINCIAL DATA (continued)

### B1. Number Sense (continued)

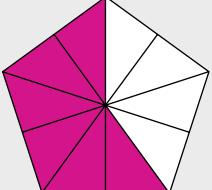
**2** Select the option that is **not** equal to 6 tenths.

AP

A 

B  $\frac{6}{10}$

C 0.06

D 

#### English-Language Schools

	No Response	A	B	C	D
Below Level 1	1	41	22	16	20
Level 1	0	58	11	17	14
Level 2	0	72	2	21	6
Level 3	0	33	1	64	2
Level 4	0	3	0	97	0

#### French-Language Schools

	No Response	A	B	C	D
Below Level 1	ND	ND	ND	ND	ND
Level 1	0	62	8	20	9
Level 2	0	66	3	27	5
Level 3	0	26	1	72	2
Level 4	0	3	0	97	0

## QUESTIONS WITH ANSWERS AND PROVINCIAL DATA (continued)

### B2. Operations

use knowledge of numbers and operations to solve mathematical problems encountered in everyday life

3 Select the **TWO** prime numbers.

**KU**

A 11

B 21

C 24

D 42

E 43

#### English-Language Schools

	No Response	Fully Correct (A and E)	Partially Correct (A)	Partially Correct (E)	Fully Incorrect
Below Level 1	ND	ND	ND	ND	ND
Level 1	ND	ND	ND	ND	ND
Level 2	0	25	34	7	34
Level 3	0	61	17	3	18
Level 4	0	95	2	0	2

#### French-Language Schools

	No Response	Fully Correct (A and E)	Partially Correct (A)	Partially Correct (E)	Fully Incorrect
Below Level 1	ND	ND	ND	ND	ND
Level 1	ND	ND	ND	ND	ND
Level 2	1	12	39	6	42
Level 3	0	53	24	3	21
Level 4	0	91	5	1	3

## QUESTIONS WITH ANSWERS AND PROVINCIAL DATA (continued)

### B2. Operations (continued)

**4** A jar contains 200 marbles, and 5% of the  
**AP** marbles are blue.

How many marbles are blue?

A 5 marbles

B 10 marbles

C 20 marbles

D 25 marbles

#### English-Language Schools

	No Response	A	B	C	D
Below Level 1	ND	ND	ND	ND	ND
Level 1	ND	ND	ND	ND	ND
Level 2	0	14	35	23	27
Level 3	0	6	71	12	11
Level 4	0	1	96	1	1

#### French-Language Schools

	No Response	A	B	C	D
Below Level 1	ND	ND	ND	ND	ND
Level 1	ND	ND	ND	ND	ND
Level 2	0	14	36	27	23
Level 3	0	6	72	12	10
Level 4	0	1	96	2	1

## QUESTIONS WITH ANSWERS AND PROVINCIAL DATA (continued)

### B2. Operations (continued)

5 Lucas types 360 words in 12 minutes.

TH Greg types twice as fast as Lucas.

How many words per minute does Greg type?

A 15 words per minute

B 30 words per minute

C 60 words per minute

D 180 words per minute

#### English-Language Schools

	No Response	A	B	C	D
Below Level 1	4	24	29	13	30
Level 1	1	16	26	22	34
Level 2	0	6	30	46	18
Level 3	0	3	13	81	3
Level 4	0	1	4	94	0

#### French-Language Schools

	No Response	A	B	C	D
Below Level 1	ND	ND	ND	ND	ND
Level 1	ND	ND	ND	ND	ND
Level 2	0	5	30	49	17
Level 3	0	2	13	81	4
Level 4	0	1	3	95	1

## QUESTIONS WITH ANSWERS AND PROVINCIAL DATA (continued)

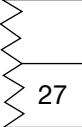
### C. ALGEBRA

#### C1. Patterns and Relationships

identify, describe, extend, create, and make predictions about a variety of patterns, including those found in real-life contexts

**6** Four term values of a growing pattern are shown.

AP

Term number	5	7	9	
Term value	11	15	19	

What is the term number when the term value is 27?

A 11

B 13

C 15

D 23

#### English-Language Schools

	No Response	A	B	C	D
Below Level 1	ND	ND	ND	ND	ND
Level 1	ND	ND	ND	ND	ND
Level 2	0	52	24	10	13
Level 3	0	30	55	8	8
Level 4	0	8	88	2	1

#### French-Language Schools

	No Response	A	B	C	D
Below Level 1	ND	ND	ND	ND	ND
Level 1	ND	ND	ND	ND	ND
Level 2	0	50	17	19	14
Level 3	0	27	63	7	4
Level 4	0	6	93	1	1

## QUESTIONS WITH ANSWERS AND PROVINCIAL DATA (continued)

### C1. Patterns and Relationships (continued)

7 This table shows a starting number and a rule for three patterns.

TH

	Pattern P	Pattern Q	Pattern R
Starting number	1	66	4
Rule	Add 5	Subtract 10	Multiply by 2

Which number is in all three patterns?

A 8

B 16

C 26

D 36

#### English-Language Schools

	No Response	A	B	C	D
Below Level 1	2	23	40	13	23
Level 1	1	27	31	14	27
Level 2	0	31	46	10	13
Level 3	0	9	82	3	6
Level 4	0	1	98	0	1

#### French-Language Schools

	No Response	A	B	C	D
Below Level 1	ND	ND	ND	ND	ND
Level 1	0	30	25	22	22
Level 2	0	40	33	13	14
Level 3	0	26	62	6	7
Level 4	0	4	94	0	1

## QUESTIONS WITH ANSWERS AND PROVINCIAL DATA (continued)

### C2. Equations and Inequalities

demonstrate an understanding of variables, expressions, equalities, and inequalities, and apply this understanding in various contexts

**8** What value of  $x$  makes this equation true?

**KU**  $7x = 28$

A 3

B 4

C 21

D 35

#### English-Language Schools

	No Response	A	B	C	D
Below Level 1	1	13	22	33	31
Level 1	0	8	26	38	27
Level 2	0	6	61	28	5
Level 3	0	2	90	7	0
Level 4	ND	ND	ND	ND	ND

#### French-Language Schools

	No Response	A	B	C	D
Below Level 1	ND	ND	ND	ND	ND
Level 1	0	10	32	39	19
Level 2	0	2	71	24	3
Level 3	0	2	97	2	0
Level 4	ND	ND	ND	ND	ND

## QUESTIONS WITH ANSWERS AND PROVINCIAL DATA (continued)

### C2. Equations and Inequalities (continued)

**9** In which equation does  $p$  have the greatest  
**TH** value?

A  $85 + p = 125$

B  $70 - p = 35$

C  $5p = 215$

D  $3p = 132$

#### English-Language Schools

	No Response	A	B	C	D
Below Level 1	3	31	22	24	20
Level 1	1	32	19	33	16
Level 2	0	23	10	47	20
Level 3	0	6	9	18	67
Level 4	0	1	3	1	95

#### French-Language Schools

	No Response	A	B	C	D
Below Level 1	ND	ND	ND	ND	ND
Level 1	ND	ND	ND	ND	ND
Level 2	0	19	13	43	25
Level 3	0	5	11	13	71
Level 4	0	1	4	1	94

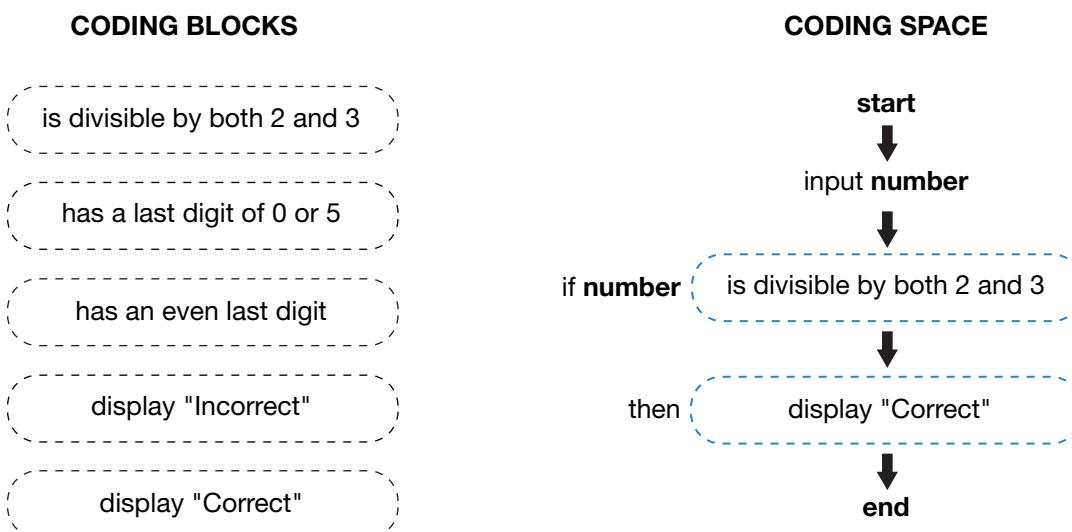
## QUESTIONS WITH ANSWERS AND PROVINCIAL DATA (continued)

### C3. Coding

solve problems and create computational representations of mathematical situations using coding concepts and skills

**10** A student wants to create code that will determine whether a whole number is divisible by 6  
**AP** and then display the word "Correct" if it is divisible.

Drag and drop the missing code to complete the program.



#### English-Language Schools

	No Response	Two Correct	One Correct	None Correct
Below Level 1	3	10	45	42
Level 1	1	17	55	27
Level 2	1	43	41	16
Level 3	0	64	28	8
Level 4	ND	ND	ND	ND

#### French-Language Schools

	No Response	Two Correct	One Correct	None Correct
Below Level 1	ND	ND	ND	ND
Level 1	ND	ND	ND	ND
Level 2	0	40	42	19
Level 3	0	56	33	11
Level 4	ND	ND	ND	ND

## QUESTIONS WITH ANSWERS AND PROVINCIAL DATA (continued)

### D. DATA

#### D1. Data Literacy

manage, analyse, and use data to make convincing arguments and informed decisions, in various contexts drawn from real life

11 This table shows the number of bags of popcorn sold at an event during different times in a day.

Time of day	Number of bags of popcorn sold
1:00–2:59	120
3:00–4:59	87
5:00–6:59	113

Which option would **best** represent this data?

A histogram

B line plot

C pictograph

D multiple-bar graph

#### English-Language Schools

	No Response	A	B	C	D
Below Level 1	ND	ND	ND	ND	ND
Level 1	ND	ND	ND	ND	ND
Level 2	0	26	24	11	38
Level 3	0	37	27	7	29
Level 4	0	56	25	3	16

#### French-Language Schools

	No Response	A	B	C	D
Below Level 1	ND	ND	ND	ND	ND
Level 1	ND	ND	ND	ND	ND
Level 2	0	32	17	18	33
Level 3	0	38	16	13	33
Level 4	0	66	11	6	17

## QUESTIONS WITH ANSWERS AND PROVINCIAL DATA (continued)

### D1. Data Literacy (continued)

**12** The height in centimetres of various plants is shown.

TH

16	21	21	31	32	34	41
----	----	----	----	----	----	----

Drag and drop the numbers that complete each statement about this set of numbers.

16	21	25	28	31	41
----	----	----	----	----	----

The range is 25 cm.

The median is 31 cm.

The mean is 28 cm.

### English-Language Schools

	No Response	All Three Correct	Two Correct	One Correct	None Correct
Below Level 1	5	0	4	23	68
Level 1	1	1	5	33	60
Level 2	1	14	14	36	34
Level 3	0	51	19	21	9
Level 4	0	87	8	5	0

### French-Language Schools

	No Response	All Three Correct	Two Correct	One Correct	None Correct
Below Level 1	ND	ND	ND	ND	ND
Level 1	ND	ND	ND	ND	ND
Level 2	0	24	15	29	32
Level 3	0	62	16	13	10
Level 4	0	89	7	3	1

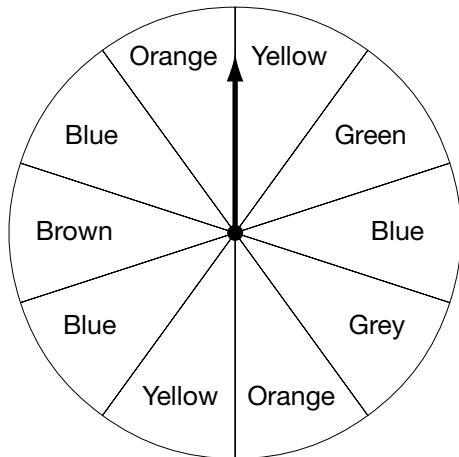
## QUESTIONS WITH ANSWERS AND PROVINCIAL DATA (continued)

### D2. Probability

describe the likelihood that events will happen, and use that information to make predictions

13 This spinner is divided into 10 equal sections.

AP



The arrow on the spinner is spun.

What is the probability that the arrow will land on yellow?

A 10%

B 20%

C 40%

D 80%

#### English-Language Schools

	No Response	A	B	C	D
Below Level 1	3	34	22	20	20
Level 1	1	34	37	18	10
Level 2	0	33	56	9	3
Level 3	0	26	72	2	1
Level 4	ND	ND	ND	ND	ND

#### French-Language Schools

	No Response	A	B	C	D
Below Level 1	ND	ND	ND	ND	ND
Level 1	ND	ND	ND	ND	ND
Level 2	0	35	52	9	4
Level 3	0	22	76	2	1
Level 4	ND	ND	ND	ND	ND

## QUESTIONS WITH ANSWERS AND PROVINCIAL DATA (continued)

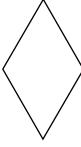
### E. SPATIAL SENSE

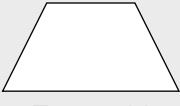
#### E1. Geometric and Spatial Reasoning

describe and represent shape, location, and movement by applying geometric properties and spatial relationships in order to navigate the world around them

14 Which of these shapes has exactly two lines of symmetry?

A   
Square

B   
Rhombus

C   
Trapezoid

D   
Parallelogram

#### English-Language Schools

	No Response	A	B	C	D
Below Level 1	1	40	20	19	20
Level 1	0	36	21	19	24
Level 2	0	30	27	22	21
Level 3	0	19	48	18	15
Level 4	0	6	78	7	9

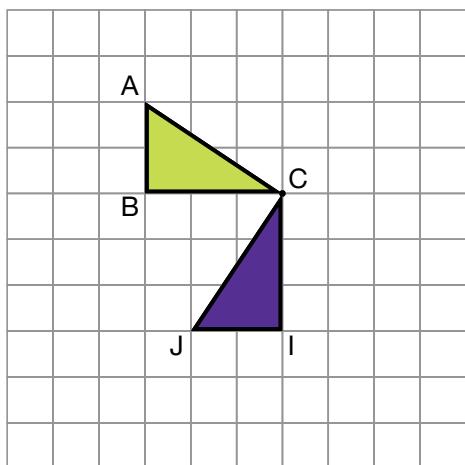
#### French-Language Schools

	No Response	A	B	C	D
Below Level 1	ND	ND	ND	ND	ND
Level 1	ND	ND	ND	ND	ND
Level 2	0	24	40	18	18
Level 3	0	17	59	11	13
Level 4	0	4	85	2	9

## QUESTIONS WITH ANSWERS AND PROVINCIAL DATA (continued)

### E1. Geometric and Spatial Reasoning (continued)

**15** Which rotation about point C moves  $\triangle ABC$  onto  $\triangle CIJ$ ?  
**AP**



A  90° clockwise

B  90° counterclockwise

C  180° clockwise

D  180° counterclockwise

#### English-Language Schools

	No Response	A	B	C	D
Below Level 1	4	43	24	21	8
Level 1	1	36	33	21	9
Level 2	0	27	46	17	10
Level 3	0	14	72	8	5
Level 4	0	5	92	2	1

#### French-Language Schools

	No Response	A	B	C	D
Below Level 1	ND	ND	ND	ND	ND
Level 1	0	30	40	21	9
Level 2	0	29	42	21	8
Level 3	0	15	69	11	5
Level 4	0	4	92	2	1

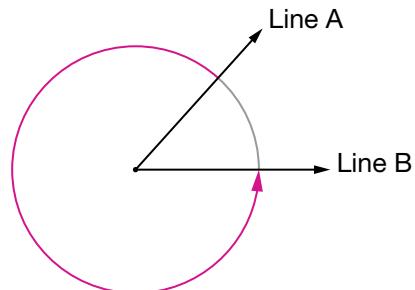
## QUESTIONS WITH ANSWERS AND PROVINCIAL DATA (continued)

### E2. Measurement

compare, estimate, and determine measurements in various contexts

**16** The acute angle between Line A and Line B is  $48^\circ$ .

AP



What is the angle when measuring **counterclockwise** from Line A to Line B?

A  $42^\circ$

B  $132^\circ$

C  $222^\circ$

D  $312^\circ$

#### English-Language Schools

	No Response	A	B	C	D
Below Level 1	3	39	38	8	12
Level 1	1	40	38	10	11
Level 2	0	26	35	9	29
Level 3	0	6	15	4	75
Level 4	0	1	3	0	97

#### French-Language Schools

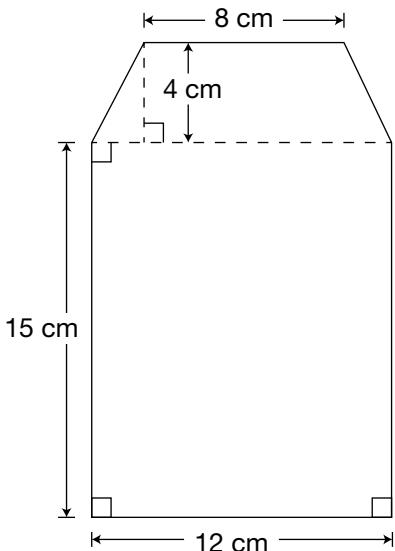
	No Response	A	B	C	D
Below Level 1	ND	ND	ND	ND	ND
Level 1	0	32	53	7	8
Level 2	0	26	38	8	28
Level 3	0	6	20	3	71
Level 4	0	1	3	1	95

## QUESTIONS WITH ANSWERS AND PROVINCIAL DATA (continued)

### E2. Measurement (continued)

17 What is the **total** area of this polygon?

TH



A  $180 \text{ cm}^2$

B  $212 \text{ cm}^2$

C  $220 \text{ cm}^2$

D  $228 \text{ cm}^2$

#### English-Language Schools

	No Response	A	B	C	D
Below Level 1	ND	ND	ND	ND	ND
Level 1	ND	ND	ND	ND	ND
Level 2	0	31	37	18	14
Level 3	0	14	33	39	14
Level 4	0	1	10	84	5

#### French-Language Schools

	No Response	A	B	C	D
Below Level 1	ND	ND	ND	ND	ND
Level 1	ND	ND	ND	ND	ND
Level 2	1	32	32	18	17
Level 3	0	10	29	48	13
Level 4	0	0	8	87	4

## QUESTIONS WITH ANSWERS AND PROVINCIAL DATA (continued)

### F. FINANCIAL LITERACY

#### F1. Money and Finances

demonstrate the knowledge and skills needed to make informed financial decisions

**18** Which method of payment often has a high  
**KU** interest rate on unpaid balances?

- A cash
- B e-transfer
- C debit card
- D credit card**

#### English-Language Schools

	No Response	A	B	C	<b>D</b>
Below Level 1	1	21	31	22	24
Level 1	0	16	27	23	33
Level 2	0	9	19	20	51
Level 3	0	5	10	15	70
Level 4	ND	ND	ND	ND	ND

#### French-Language Schools

	No Response	A	B	C	<b>D</b>
Below Level 1	ND	ND	ND	ND	ND
Level 1	0	32	16	31	21
Level 2	0	18	20	20	42
Level 3	0	11	8	15	66
Level 4	ND	ND	ND	ND	ND

