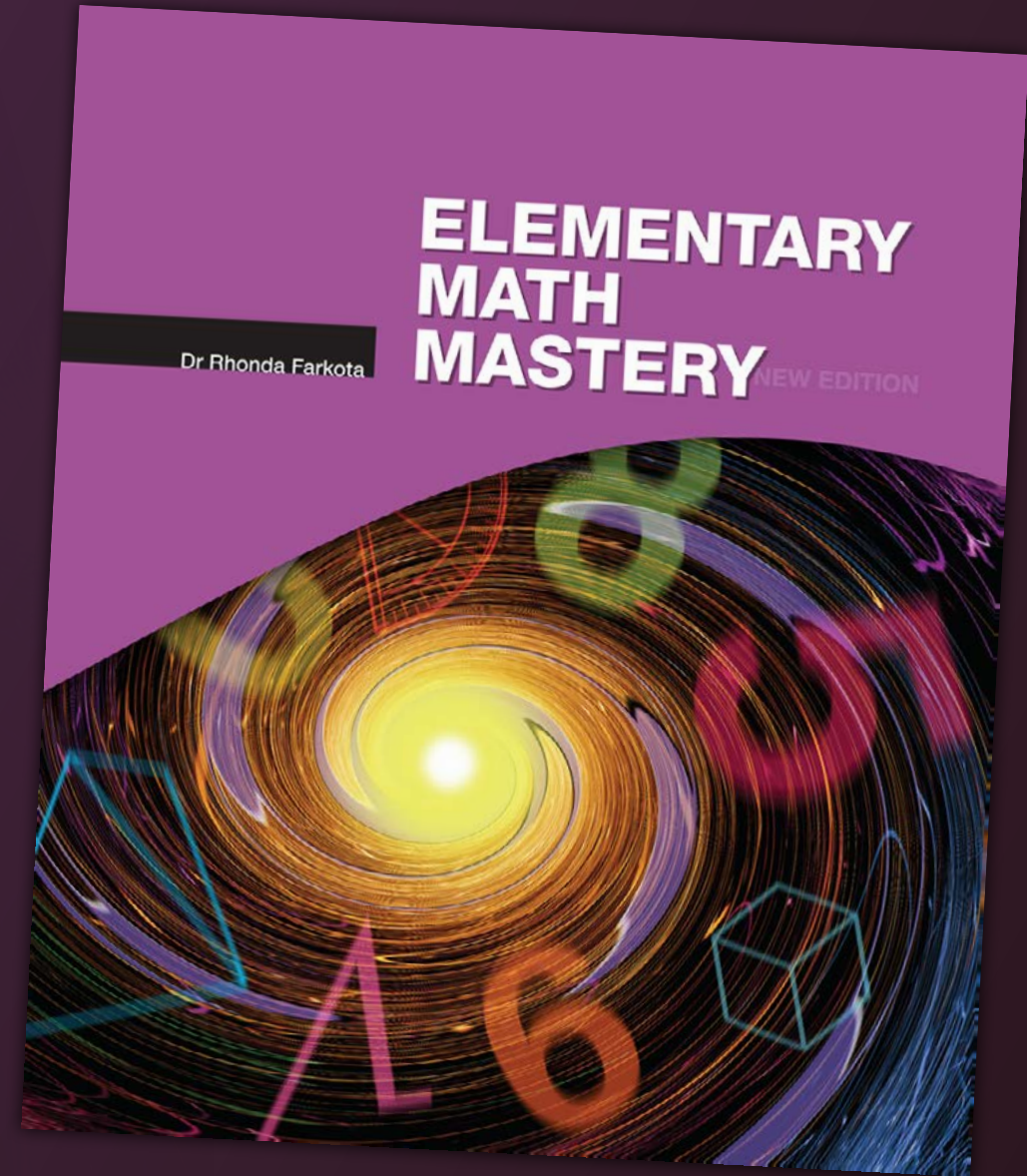


# Electronic Reference Stimuli (ERS)

## Lessons 1–5

To close Full Screen mode,  
press Ctrl+L (PC) or Cmd+L (Mac) or Esc.

To open Full Screen mode,  
press Ctrl+L (PC) or Cmd+L (Mac).







## LETTER TO STUDENT

Dear Student

This is your myEMMdata workbook. Over the course of the EMM program it will show how well your abilities in mathematics are developing. It is allocated to you, and you alone, so please fill in your details on the back cover.

Here's an explanation of the myEMMdata components.

### Workbook components

**Daily Data:** Daily, you record and summarise your own data. For incorrect responses, classified as Bugs, you shade the BugKey in the corresponding row on the BugBoard. This allows you and your teacher to monitor your progress.

**For example, see myEMMdata pages 2–9.**

**Visual representation:** This provides you with base knowledge and daily practice in reading and interpreting data to prepare you for the Round task.

**For example, see myEMMdata pages 2–9.**

**Round task:** EMM is structured into 32 rounds each consisting of 5 lessons. At the end of each round you read, interpret and complete tables and graphs building on the Visual representation knowledge you have acquired.

**For example, see myEMMdata pages 10–11.**

**Self-evaluation:** After each group of 20 lessons you self-evaluate and reflect on your growth in knowledge, understanding and achievement.

**For example, see myEMMdata pages 12–13.**

**EMMathon:** To demonstrate your BugFree status you do an EMMathon, which consists of questions you have already done. This will help assess how well you have consolidated your knowledge.

**For example, see myEMMdata pages 14–15.**

**EMMathon to BugFree:** You convert your scores to percentages to determine your BugFree status. This helps you to concentrate on personal growth rather than comparing yourself with other students.

**For example, see myEMMdata pages 58–61.**

**Challenge:** This is designed to stimulate your thinking processes. It requires you to reflect on what you have learned.

**See myEMMdata pages 122–125.**

**Club BugFree Award:** This is awarded when you score all correct responses over a number of consecutive lessons (to be decided by your teacher).

**See myEMMdata pages 127–133.**

**Other Awards:** Accurate marking; Neat workbook.

**See myEMMdata pages 135–141.**

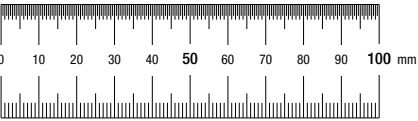
Your myEMMdata workbook is an important academic journal that records your progress in mathematics. I hope you will enjoy using it, and take pride in keeping it accurate and true. You never know, you might like to share it with family and friends or perhaps even me.

Best Wishes  
Dr Rhonda Farkota

WORKSPACE

Lesson 1	
Lesson 2	
Lesson 3	
Lesson 4	
Lesson 5	

Date
Round 1
Question 1
Question 2
Question 3
Question 4
Question 5
Question 6
Question 7
Question 8
Question 9
Question 10
Question 11
Question 12
Question 13
Question 14
Question 15
Question 16
Question 17
Question 18
Question 19
Question 20
My score
Out of

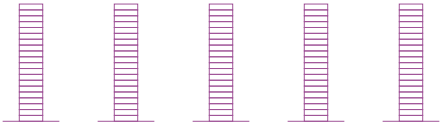


For each Lesson the whole of my data is represented in a bar made of 20 rectangles. From the baseline, I summarise my data by shading the number of rectangles equal to my score.

DAILY DATA

					BugBoard										
					Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5	1	2	3	4	5	
1															1
2															2
3															3
4															4
5															5
6															6
7															7
8															8
9															9
10															10
11															11
12															12
13															13
14															14
15															15
16															16
17															17
18															18
19															19
20															20
					20	20	20	20	20						

Visual representation



After recording and summarising my data for these 5 lessons, I go to **page 10** and complete my Task for this Round.



# Contents

Lesson 1	5
Lesson 2	26
Lesson 3	47
Lesson 4	68
Lesson 5	89

# Lesson 1

## Lesson 1

### Question 1

$$\begin{array}{r} 564 \\ + 212 \\ \hline 776 \end{array}$$



## Lesson 1

### Question 2

$$\begin{array}{r} 564 \\ - 212 \\ \hline 52 \end{array}$$

## Lesson 1

### Question 3

$$\begin{array}{r} 43 \\ \times 2 \\ \hline 6 \end{array}$$



## Lesson 1

### Question 4

$$\begin{array}{r} 32 \\ 3 \overline{) 96} \end{array}$$

## Lesson 1

# Question 5



## Lesson 1

### Question 6

$$4 \times ? = 8$$

## Lesson 1

### Question 7

$$6 \times 10 = 60$$

$$19 \times 10 = 190$$



## Lesson 1

# Question 8



## Lesson 1

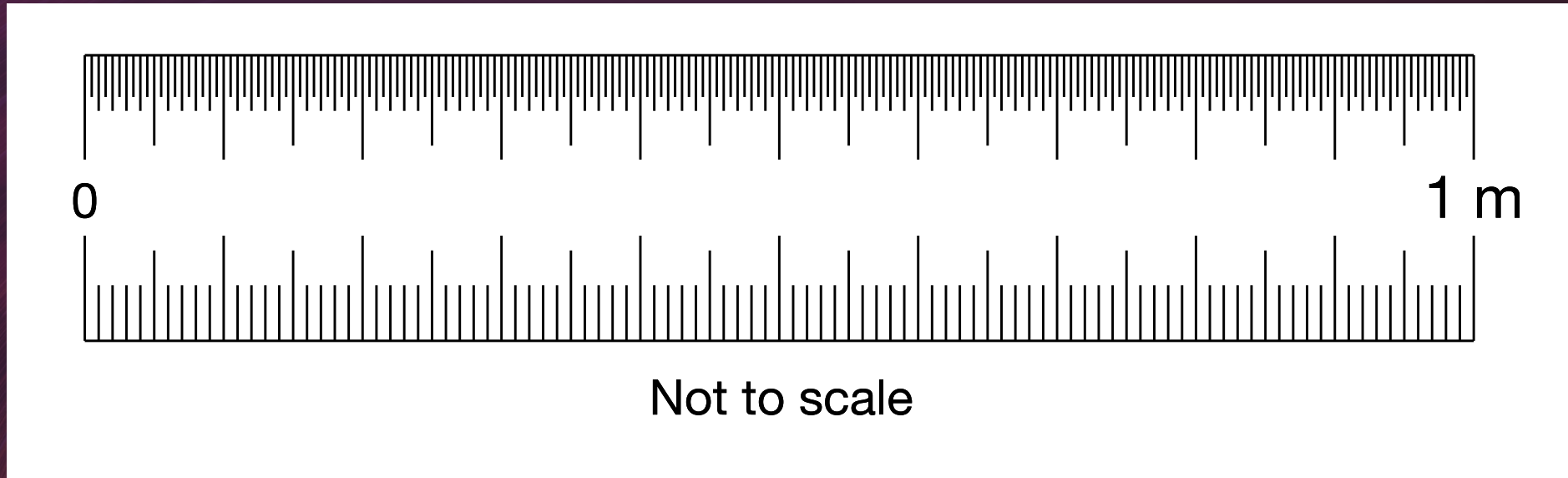
# Question 9

4.5



## Lesson 1

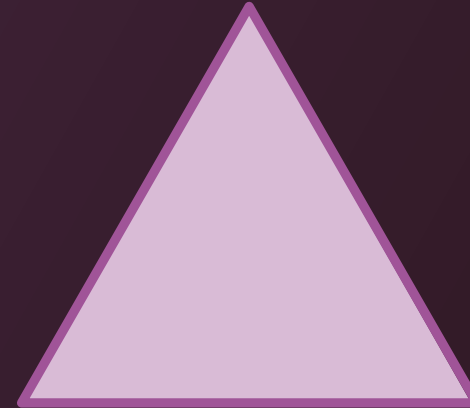
### Question 10



## Lesson 1

### Question 11

polygon





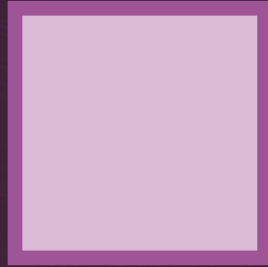
## Lesson 1

# Question 12

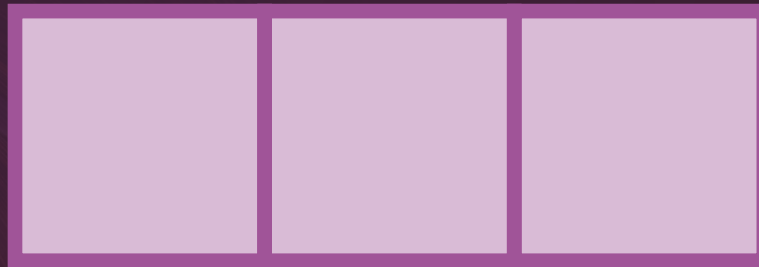
F N Y X Z

## Lesson 1

### Question 13



part A



part B



## Lesson 1

# Question 14

## Lesson 1

### Question 15

\$5.01

\$5.99



## Lesson 1

### Question 16

4:00 a.m.

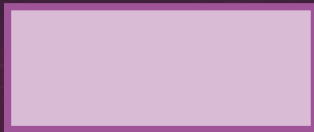
## Lesson 1

# Question 17



## Lesson 1

# Question 18



## Lesson 1

### Question 19

#### Springville Infant School

	Grade three	Grade two	Grade one	Total
Girls	16	11	12	39
Boys	10	13	14	37
Total	26	24	26	76



## Lesson 1

# Question 20

# Lesson 2



## Lesson 2

### Question 1

$$\begin{array}{r} 432 \\ + 211 \\ \hline 43 \end{array}$$

## Lesson 2

### Question 2

$$\begin{array}{r} 432 \\ - 211 \\ \hline 21 \end{array}$$



## Lesson 2

### Question 3

$$\begin{array}{r} 21 \\ \times 4 \\ \hline 4 \end{array}$$

## Lesson 2

### Question 4

$$\begin{array}{r} 32 \\ 3 \overline{) 96} \end{array}$$



## Lesson 2

# Question 5

## Lesson 2

### Question 6

$$2 \times ? = 8$$



## Lesson 2

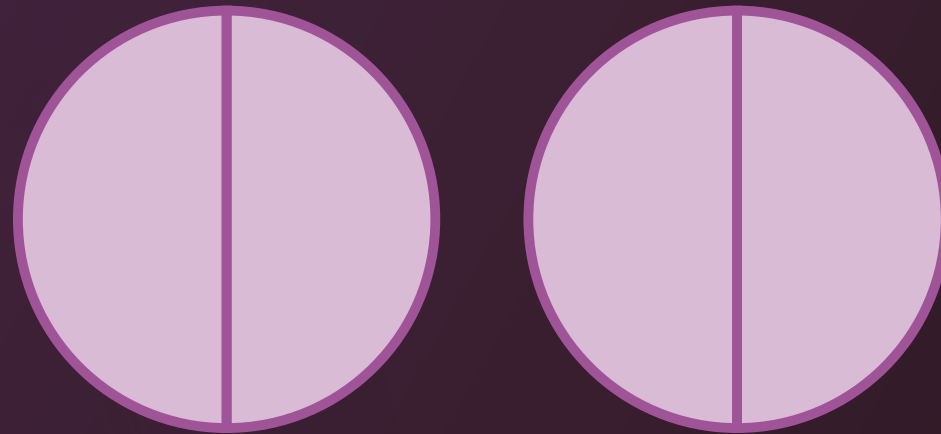
### Question 7

$$6 \times 10 = 60$$

$$19 \times 10 = 190$$

## Lesson 2

# Question 8





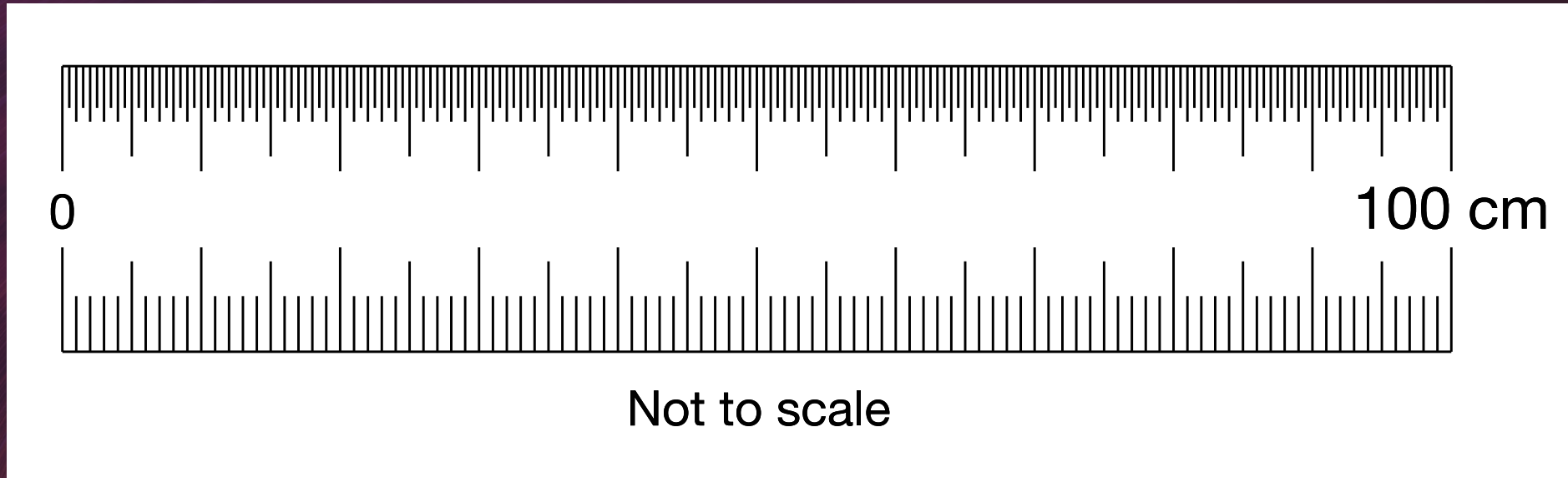
## Lesson 2

# Question 9

4.2

## Lesson 2

### Question 10

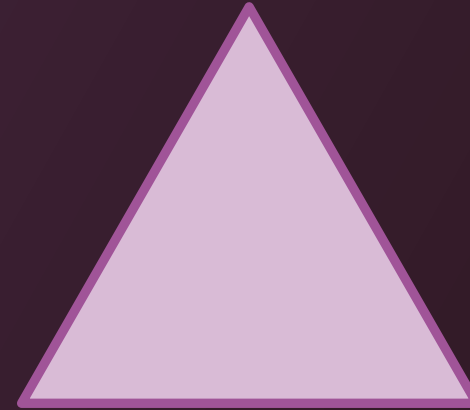
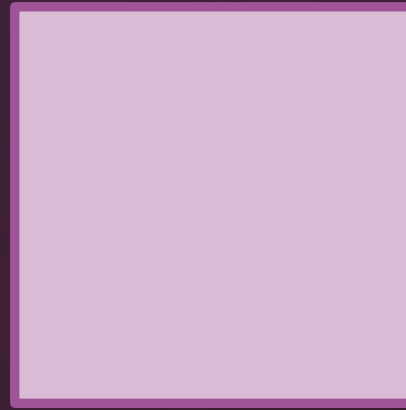




## Lesson 2

### Question 11

polygon



## Lesson 2

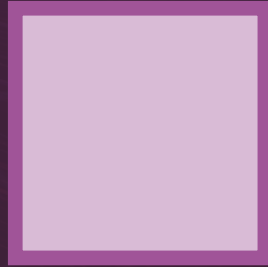
# Question 12

F E H Z

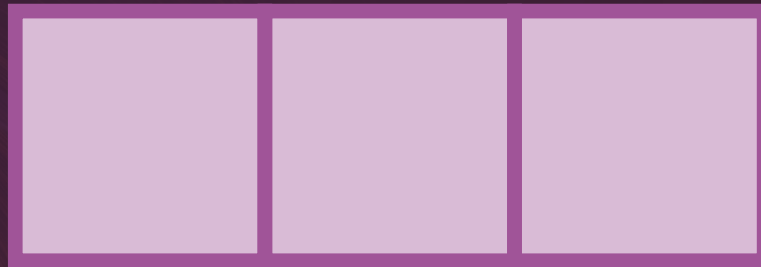


## Lesson 2

### Question 13



part A



part B

## Lesson 2

# Question 14



## Lesson 2

### Question 15

\$5.01

\$5.99

## Lesson 2

### Question 16

4:00 a.m.

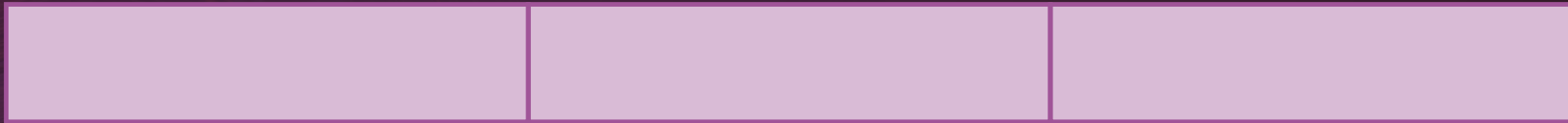


## Lesson 2

# Question 17

## Lesson 2

# Question 18



## Lesson 2

### Question 19

#### Springville Infant School

	Grade three	Grade two	Grade one	Total
Girls	16	11	12	39
Boys	10	13	14	37
Total	26	24	26	76



## Lesson 2

# Question 20

# Lesson 3

## Lesson 3

### Question 1

$$\begin{array}{r} 232 \\ + 221 \\ \hline 3 \end{array}$$



## Lesson 3

### Question 2

$$\begin{array}{r} 232 \\ - 221 \\ \hline 1 \end{array}$$

## Lesson 3

### Question 3

$$\begin{array}{r} 34 \\ \times 2 \\ \hline 68 \end{array}$$

## Lesson 3

### Question 4

$$\begin{array}{r} 3 \\ 3 \overline{) 96} \end{array}$$



## Lesson 3

# Question 5

## Lesson 3

### Question 6

$$5 \times ? = 10$$

## Lesson 3

### Question 7

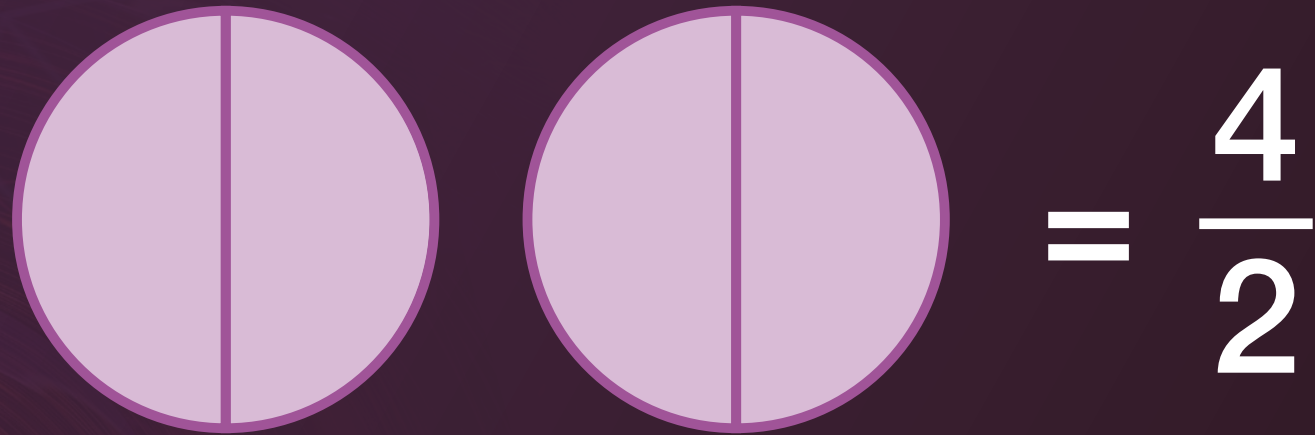
$$6 \times 10 = 60$$

$$19 \times 10 = 190$$



## Lesson 3

### Question 8



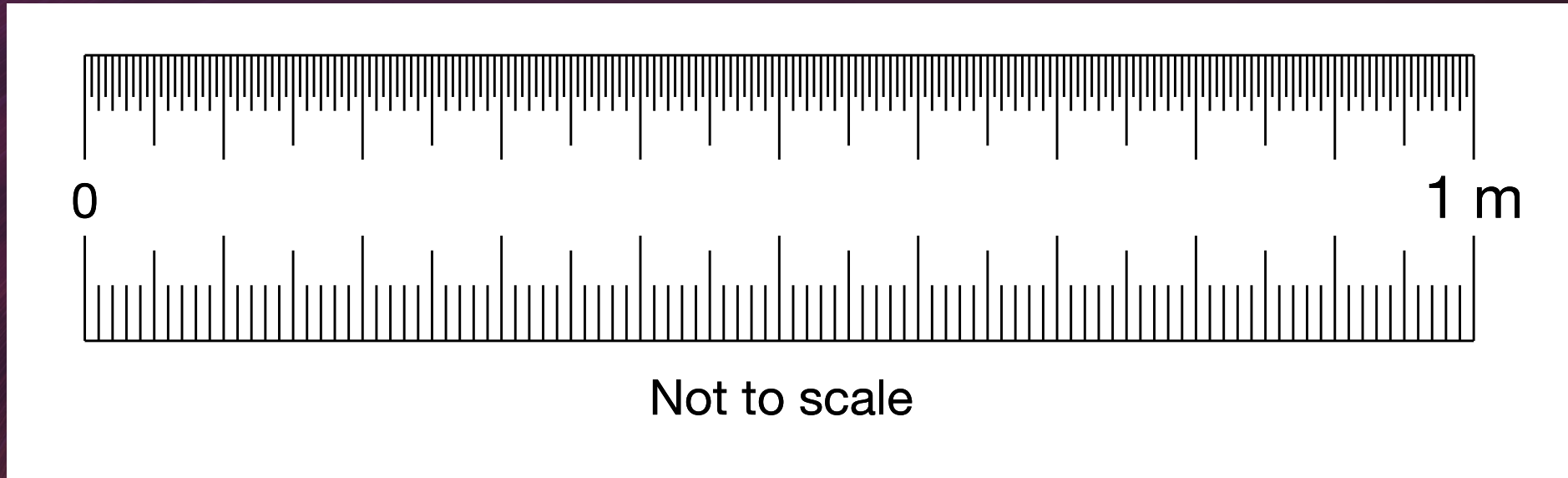
## Lesson 3

# Question 9

12.5

## Lesson 3

### Question 10





## Lesson 3

# Question 11

polygon

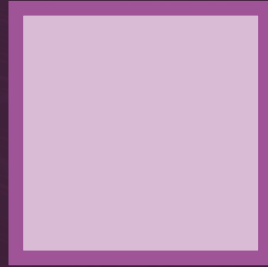
## Lesson 3

# Question 12

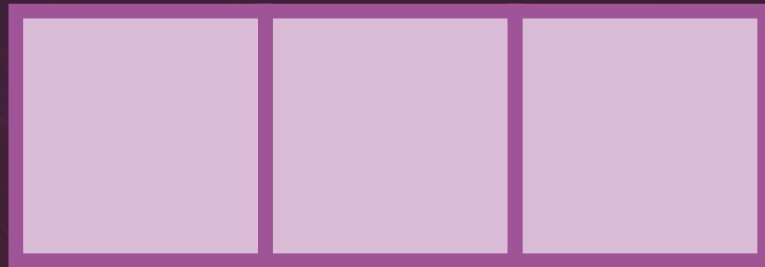
T

## Lesson 3

### Question 13



part A



part B



## Lesson 3

# Question 14

## Lesson 3

# Question 15

## Lesson 3

# Question 16



## Lesson 3

# Question 17

## Lesson 3

# Question 18


## Lesson 3

### Question 19

#### Springville Infant School

	Grade three	Grade two	Grade one	Total
Girls	16	11	12	39
Boys	10	13	14	37
Total	26	24	26	76



## Lesson 3

# Question 20

# Lesson 4

## Lesson 4

### Question 1

$$524 + 213$$



## Lesson 4

### Question 2

$$524 - 213$$

## Lesson 4

### Question 3

$$\begin{array}{r} 43 \\ \times 2 \\ \hline 6 \end{array}$$

## Lesson 4

### Question 4

$$\begin{array}{r} 3 \\ 3 \overline{) 99} \end{array}$$



## Lesson 4

# Question 5

## Lesson 4

### Question 6

$$10 \times ? = 20$$

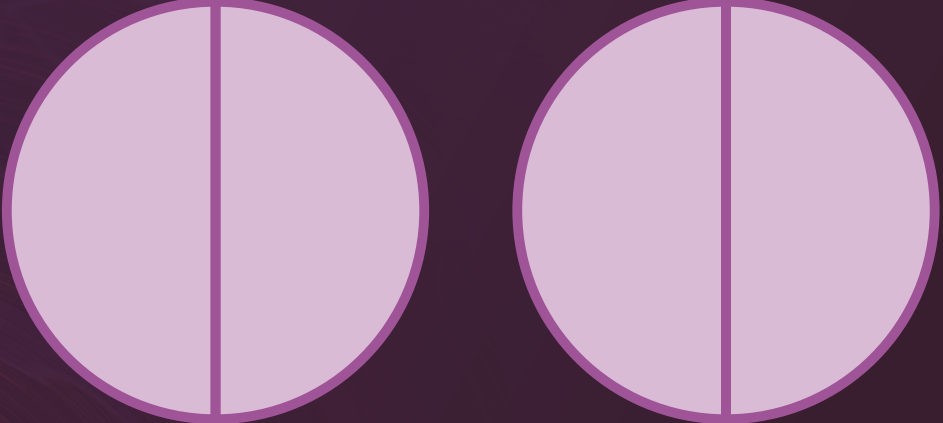
## Lesson 4

# Question 7



## Lesson 4

### Question 8


$$= \frac{?}{2}$$

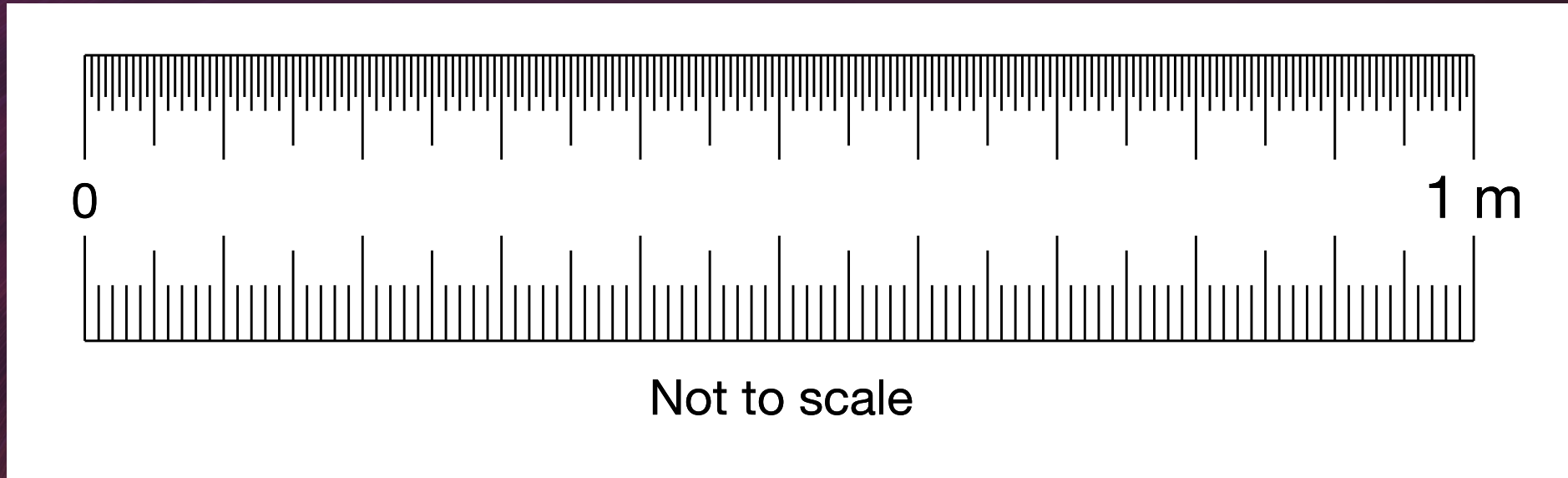
## Lesson 4

# Question 9

12.2

## Lesson 4

### Question 10





## Lesson 4

# Question 11

## Lesson 4

# Question 12

N H Z K

## Lesson 4

### Question 13

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part A

--	--	--

part B



## Lesson 4

# Question 14

## Lesson 4

# Question 15

## Lesson 4

# Question 16



## Lesson 4

# Question 17

## Lesson 4

# Question 18



## Lesson 4

### Question 19

#### Springville Infant School

	Grade three	Grade two	Grade one	Total
Girls	16	11	12	39
Boys	10	13	14	37
Total	26	24	26	76



## Lesson 4

# Question 20

# Lesson 5

## Lesson 5

### Question 1

$$544 + 222$$



## Lesson 5

### Question 2

$$544 - 222$$

## Lesson 5

### Question 3

$$\begin{array}{r} 31 \\ \times 3 \\ \hline 3 \end{array}$$

## Lesson 5

### Question 4

$$\begin{array}{r} 3 \\ 3 \overline{) 93} \end{array}$$



## Lesson 5

# Question 5

## Lesson 5

### Question 6

$$? \times 10 = 20$$


## Lesson 5

# Question 7



## Lesson 5

### Question 8


$$= \frac{4}{?}$$

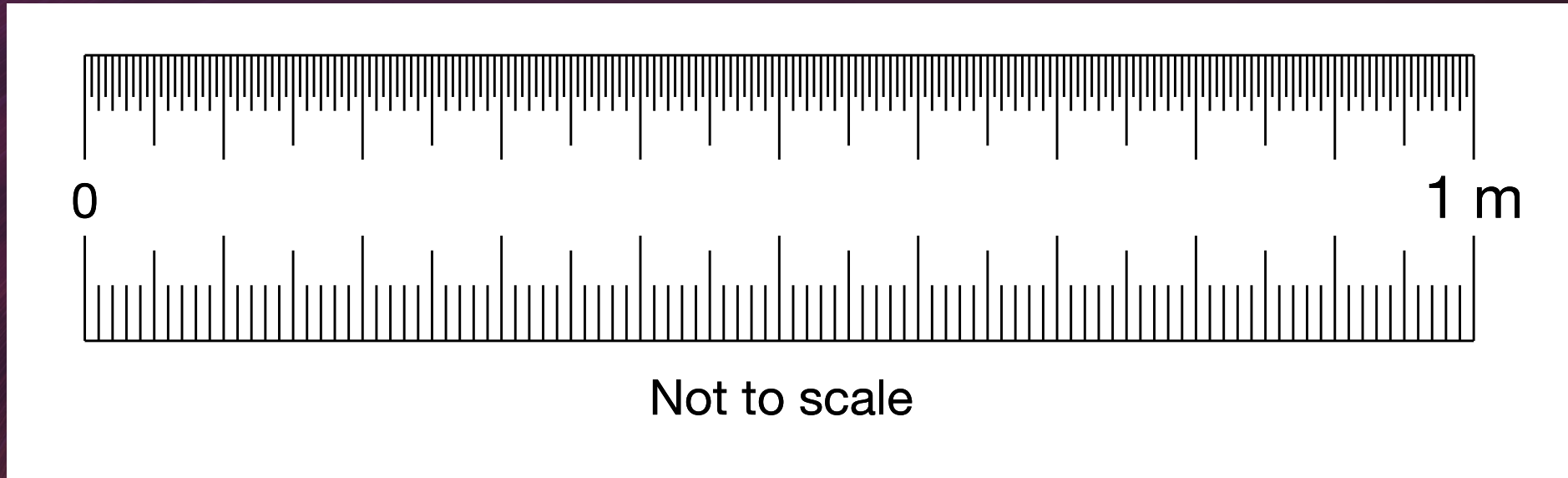
## Lesson 5

# Question 9

12.1

## Lesson 5

### Question 10





## Lesson 5

# Question 11

## Lesson 5

# Question 12

F Y Z X

## Lesson 5

### Question 13

$$2 + 6 =$$

Total sum of parts



## Lesson 5

# Question 14

## Lesson 5

# Question 15

## Lesson 5

# Question 16

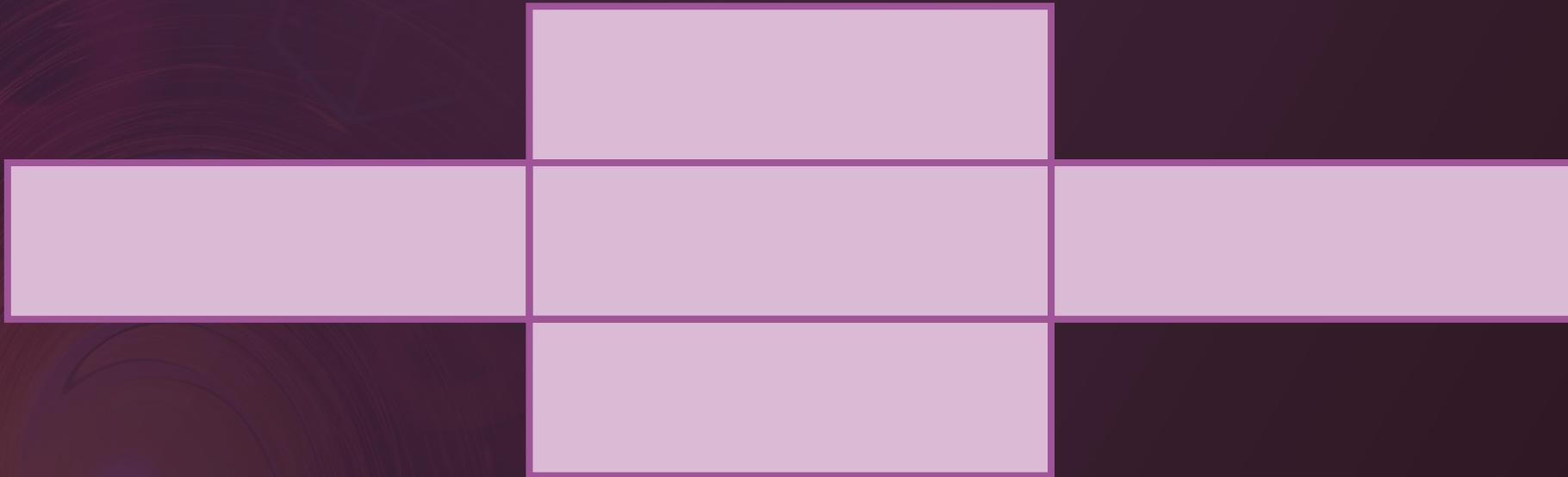


## Lesson 5

# Question 17

## Lesson 5

### Question 18



## Lesson 5

### Question 19

#### Springville Infant School

	Grade three	Grade two	Grade one	Total
Girls	16	11	12	39
Boys	10	13	14	37
Total	26	24	26	76



## Lesson 5

# Question 20

## Lesson 5

*Before the next lesson  
students should complete the  
Round Task.*