

# LEAP CONNECT

## Practice Test Reference Materials

Mathematics  
Grade 7

Reference Materials include required graphics that are to be presented to the student during administration of the LEAP Connect mathematics practice test. Refer to the *Directions for Practice Test Administration* (DPTA) for detailed instructions.

## **Session 1**

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*Item 1 Answer Options*

*Data Table 1, “Pelicans Seen in One Hour” (Item 2)*

*Item 2 Answer Options*

*Bar Graph 1, “Objects Counted” (Item 3)*

*Items 3 – 5 Answer Options*

*Data Table 2, “Game Card Packs” (Item 6)*

*Item 6 Answer Options*

*Formula 1 showing the area of a circle (Item 7)*

*Items 7 – 8 Answer Options*

*Bar Graph 2, “Favorite Sport to Watch” (Item 9)*

*Items 9 – 11 Answer Options*

*Data Table 3, “Necklace Cost” (Item 12)*

*Items 12 – 15 Answer Options*

*Rectangular Prism and Net 1 (Item 16)*

*Items 16 – 18 Answer Options*

*Line Graph 1, “Ryan’s Ticket Prices” (Item 19)*

*Items 19 – 20 Answer Options*

## **Session 2**

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*Picture 1 showing pencils and equation (Item 21)*

*Item 21 Answer Options*

*Data Table 4, “Books Read” (Item 22)*

*Item 22 Answer Options*

*Bar Graph 3, “Wear a Backpack” (Item 23)*

*Item 23 Answer Options*

*Formula 1 showing the area of a circle (Item 24)*

*Item 24 Answer Options*

*Line Graph 2, "Gail's Work Rate" (Item 25)*

*Items 25 – 27 Answer Options*

*Rectangular Prism and Net 2 (Item 28)*

*Items 28 – 29 Answer Options*

*Bar Graph 4, "Favorite Movie Types" (Item 30)*

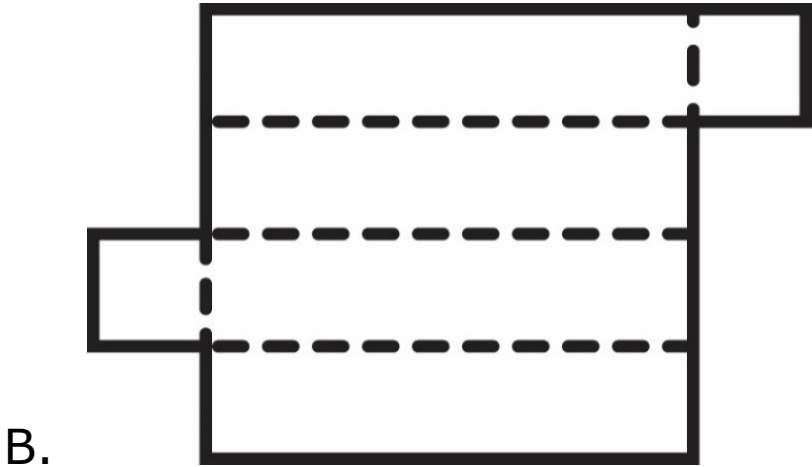
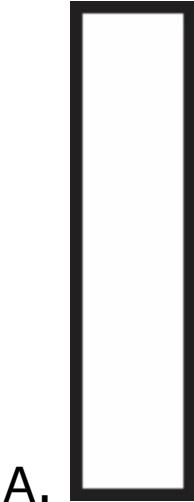
*Items 30 – 31 Answer Options*

*Cube and Net 3 (Item 32)*

*Items 32 – 34 Answer Options*



# Session 1

Session 1 - Item 1 Answer Options



Data Table 1, "Pelicans Seen in One Hour" (Item 2)

# Pelicans Seen in One Hour

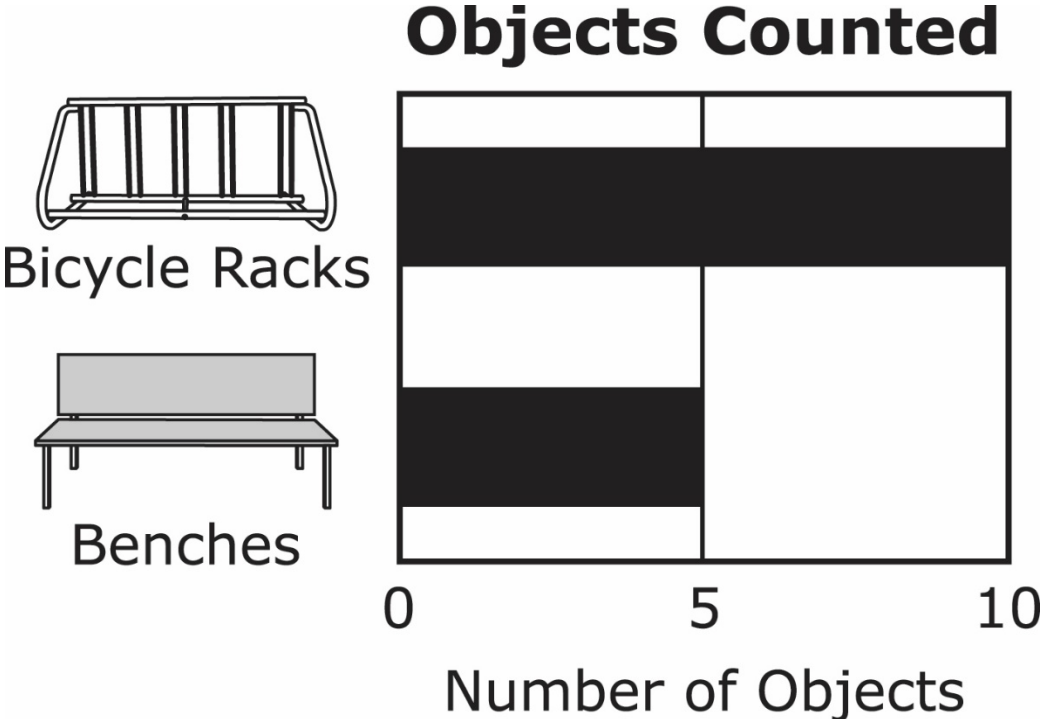
Tracy	Steve
	

**Session 1 - Item 2 Answer Options**

A. Tracy

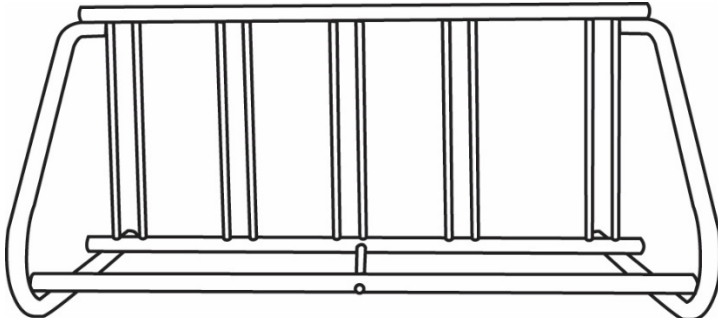
B. Steve

Bar Graph 1, "Objects Counted" (Item 3)





Session 1 - Item 3 Answer Options



A. Bicycle Racks



B. Benches

Session 1 - Item 4 Answer Options



A.



B.



**Session 1 - Item 5 Answer Options**

A. 3 hats

B. 4 hats

C. 15 hats

Data Table 2, "Game Card Packs" (Item 6)

## Game Card Packs

<b>Number of Card Packs</b>	<b>Number of Cards</b>
1	?
2	30
3	45
4	60

**Session 1 - Item 6 Answer Options**

A. 15 cards

B. 30 cards

C. 45 cards

Formula 1 showing the area of a circle (Item 7)

$$\text{Area} = 3.14 \times r \times r$$

$$\text{Area} = 3.14 \times \_ \times \_$$

**Session 1 – Item 7 Answer Options**

A. 15.14 sq ft

B. 39.14 sq ft

C. 113.04 sq ft

**Session 1 – Item 8 Answer Options**

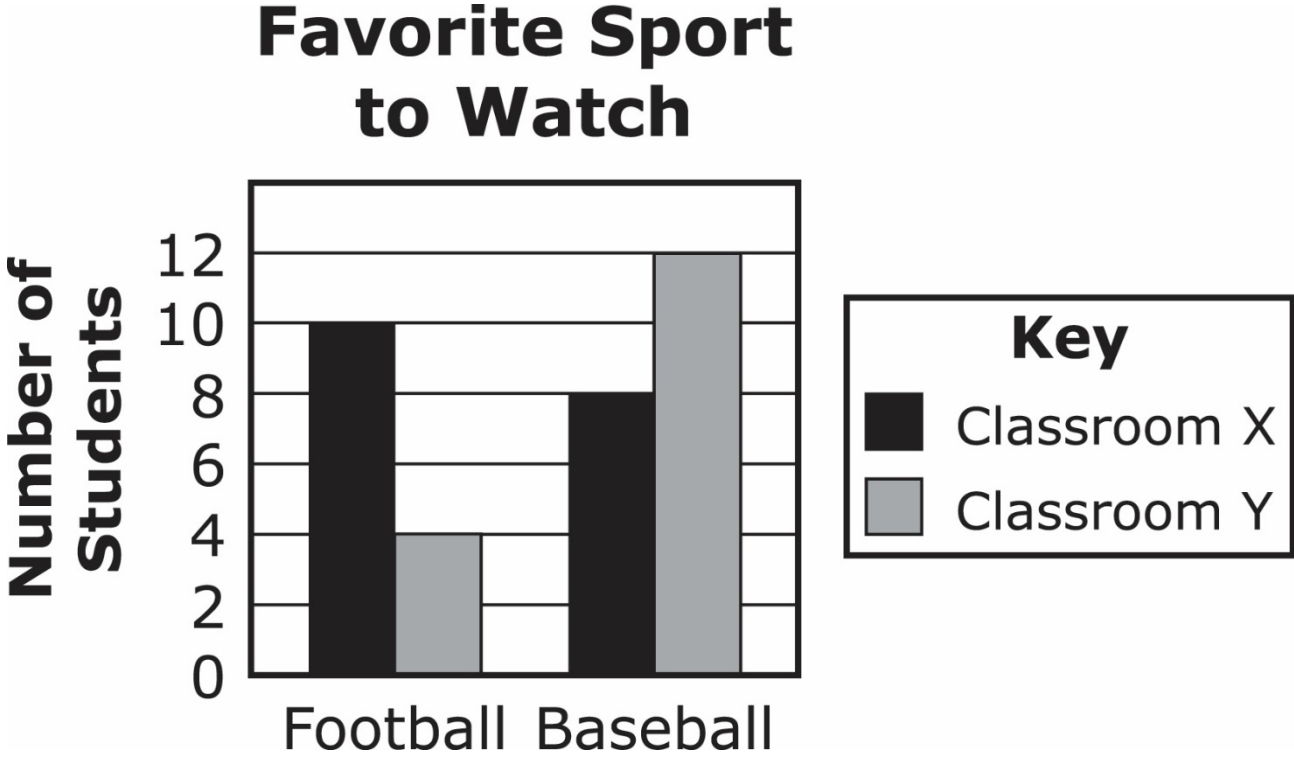
A. 8 ribbons

B. 9 ribbons

C. 15 ribbons



Bar Graph 2, "Favorite Sport to Watch" (Item 9)



Session 1 - Item 9 Answer Options

- A. **More** students in Classroom X than in Classroom Y like watching football.
- B. **Less** students in Classroom X than in Classroom Y like watching football.
- C. About the **same** number of students in Classroom X and Classroom Y like watching football.

Session 1 - Item 10 Answer Options

A.  $\frac{\mathbf{d}}{100} = \frac{10}{\mathbf{d}}$

B.  $\frac{54}{100} = \frac{\mathbf{d}}{100}$

C.  $\frac{\mathbf{d}}{54} = \frac{10}{100}$

**Session 1 - Item 11 Answer Options**

A. Area =  $3.14 + 9 + 9$

B. Area =  $3.14 \times 9 \times 9$

C. Area =  $3.14 \times 9$

Data Table 3, "Necklace Cost" (Item 12)

## Necklace Cost

<b>Number of Necklaces</b>	<b>Cost of Necklaces (in \$)</b>
1	?
2	12
3	18
4	24

**Session 1 - Item 12 Answer Options**

A. \$6

B. \$8

C. \$10

**Session 1 - Item 13 Answer Options**

A. -21

B. +10

C. +21

**Session 1 - Item 14 Answer Options**

A. 9 miles

B. 8 miles

C. 3 miles



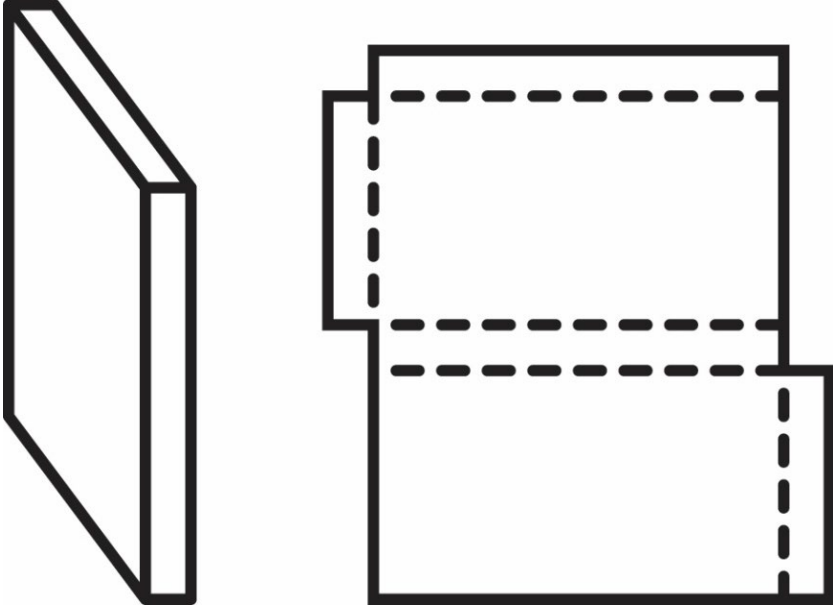
**Session 1 - Item 15 Answer Options**

A. \$2

B. \$12

C. \$35

**Rectangular Prism and Net 1 (Item 16)**



**Session 1 - Item 16 Answer Options**

A. 1

B. 3

C. 6

**Session 1 - Item 17 Answer Options**

A. +10

B. -7

C. -10

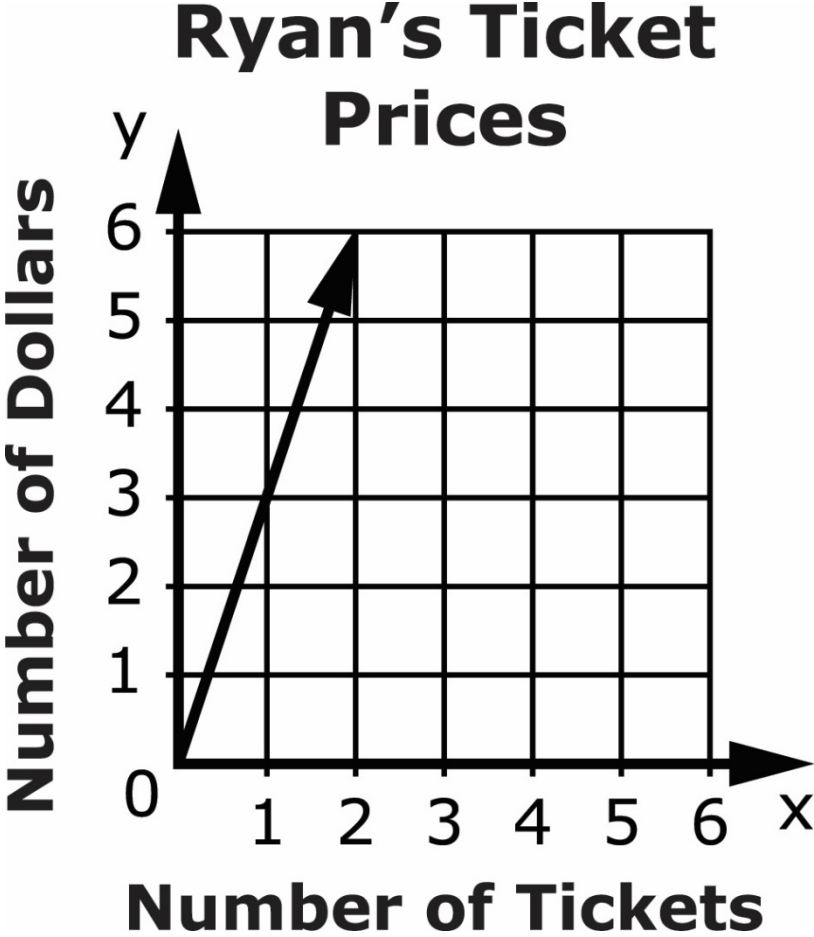
**Session 1 - Item 18 Answer Options**

A. \$38

B. \$42

C. \$45

Line Graph 1, "Ryan's Ticket Prices" (Item 19)



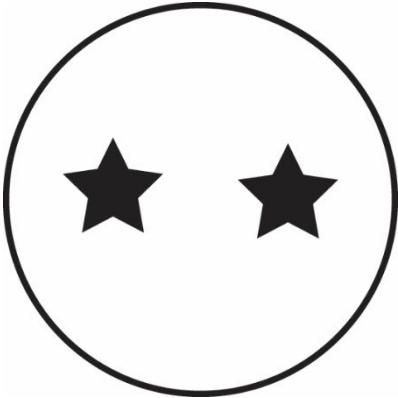
**Session 1 - Item 19 Answer Options**

A. \$1

B. \$3

C. \$6

Session 1 - Item 20 Answer Options



A.

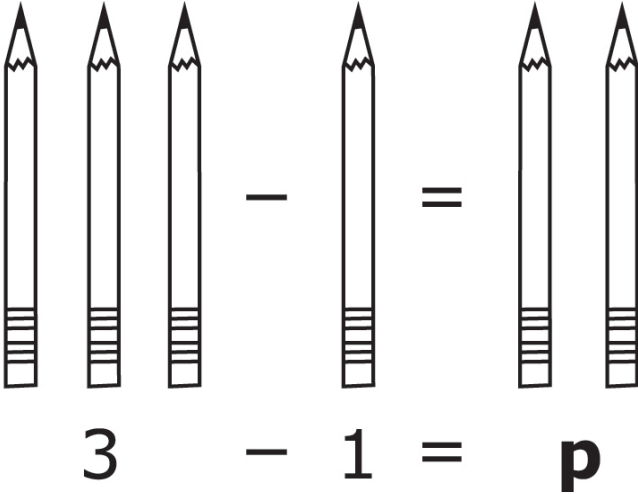


B.



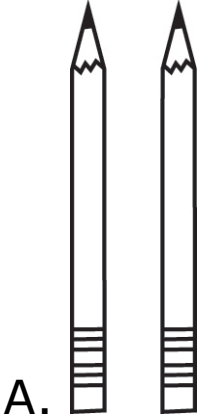
# Session 2

Picture 1 showing pencils and equation (Item 21)

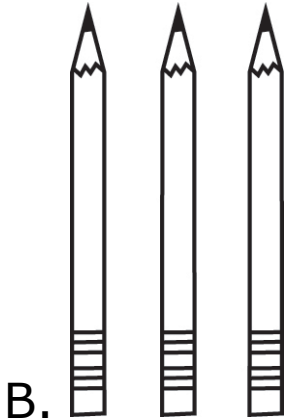


Session 2 - Item 21 Answer Options

the number of pencils Ms. Jones had left



the number of pencils Ms. Jones started with



Data Table 4, "Books Read" (Item 22)

# Books Read

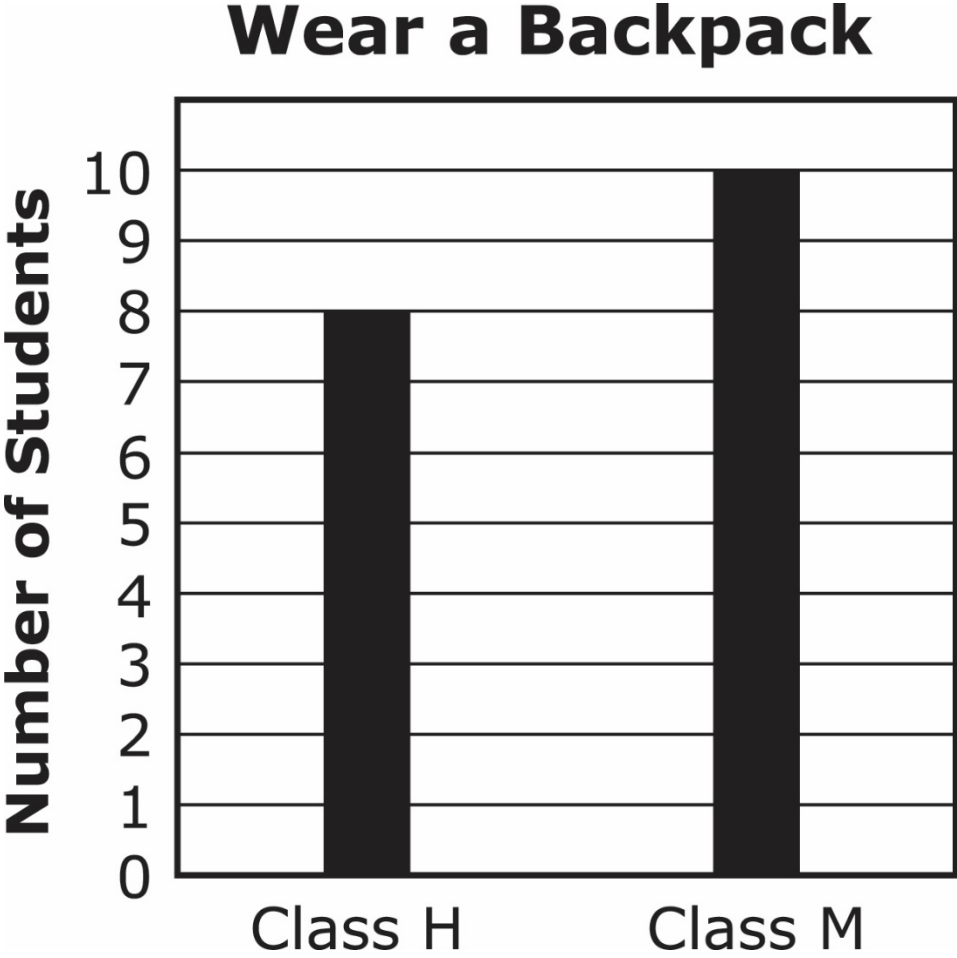
<b>Week</b>	<b>Total Number of Books Read</b>
1	2
2	4
3	6

Session 2 - Item 22 Answer Options

A. The total number of books read **increased** each week.

B. The total number of books read **decreased** each week.

Bar Graph 3, "Wear a Backpack" (Item 23)



Session 2 - Item 23 Answer Options

A. **More** students in Class H wear a backpack to school than in Class M

B. **Less** students in Class H wear a backpack to school than in Class M.

C. The **same** number of students in Class H and in Class M wear a backpack to school.

Formula 1 showing the area of a circle (Item 24)

$$\text{Area} = 3.14 \times r \times r$$

$$\text{Area} = 3.14 \times \_ \times \_$$



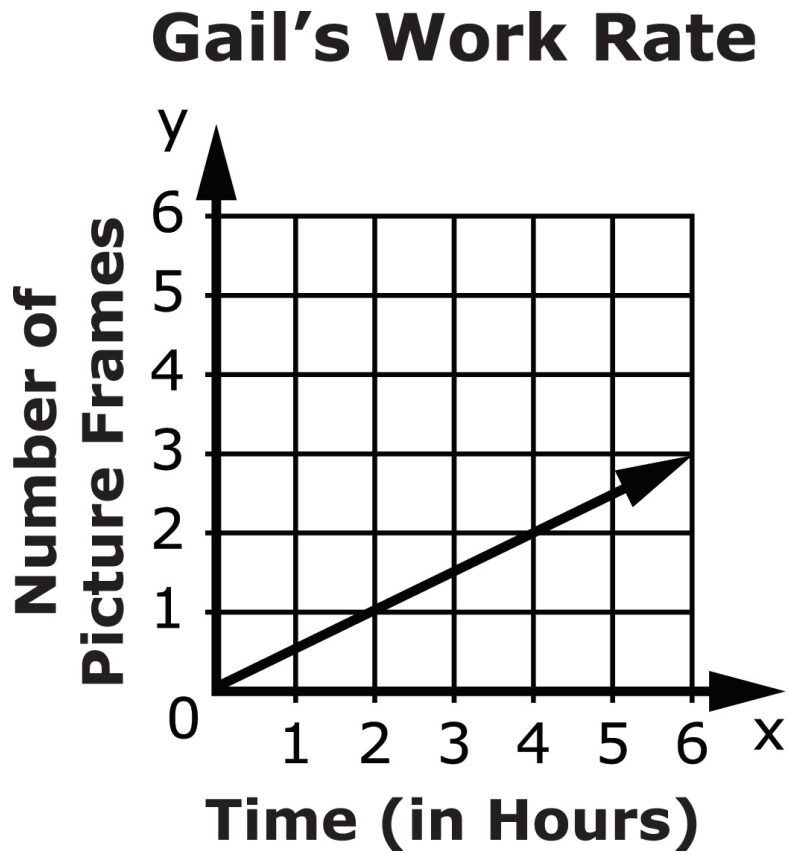
**Session 2 - Item 24 Answer Options**

A. Area =  $3.14 \times 10$

B. Area =  $3.14 + 10 + 10$

C. Area =  $3.14 \times 10 \times 10$

Line Graph 2, "Gail's Work Rate" (Item 25)



**Session 2 - Item 25 Answer Options**

A. 1 picture frame

B. 2 picture frames

C. 3 picture frames

**Session 2 – Item 26 Answer Options**

A. 5 cups

B. 8 cups

C. 15 cups

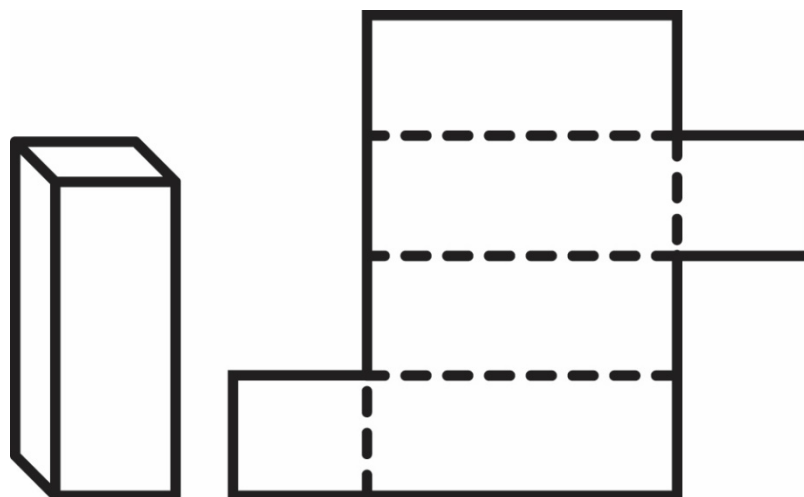
**Session 2 - Item 27 Answer Options**

A. -18

B. +18

C. -3

**Rectangular Prism and Net 2 (Item 28)**



**Session 2 - Item 28 Answer Options**

A. 1

B. 4

C. 6

Session 2 - Item 29 Answer Options

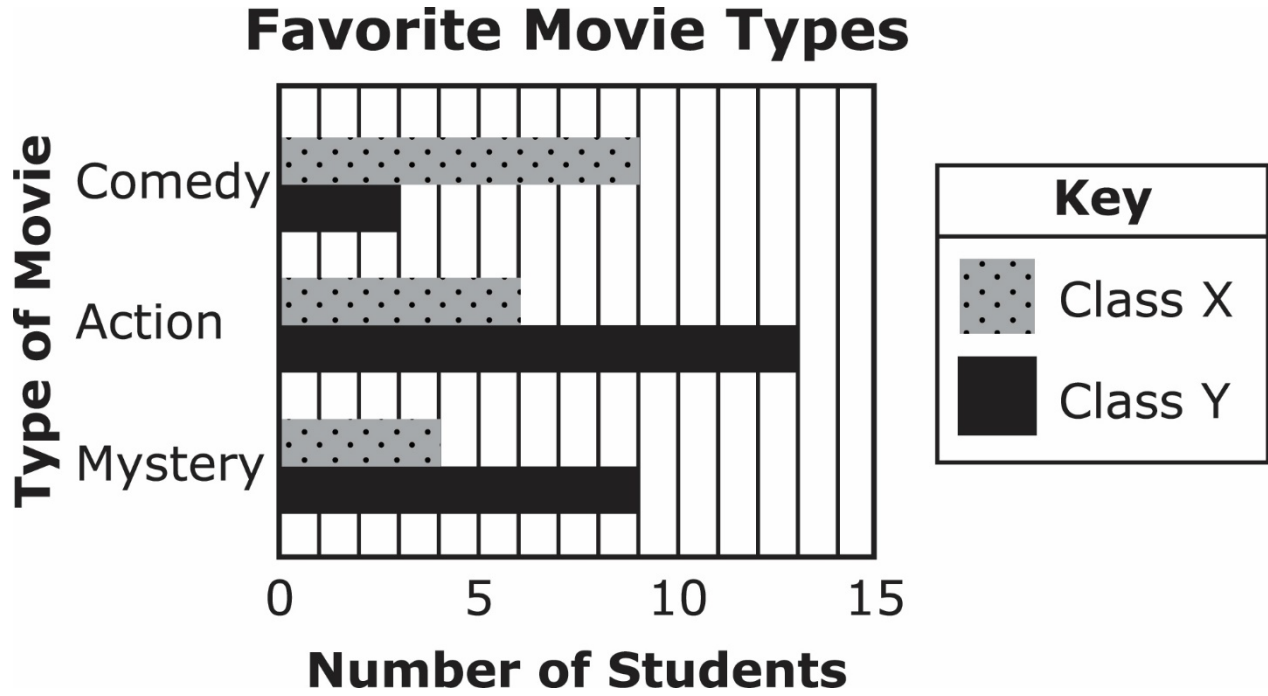
A.  $\frac{\mathbf{d}}{20} = \frac{10}{100}$  the discount is \$2

B.  $\frac{20}{\mathbf{d}} = \frac{10}{100}$  the discount is \$5

C.  $\frac{100}{20} = \frac{\mathbf{d}}{10}$  the discount is \$10



Bar Graph 4, "Favorite Movie Types" (Item 30)



**Session 2 - Item 30 Answer Options**

A. 9

B. 6

C. 3

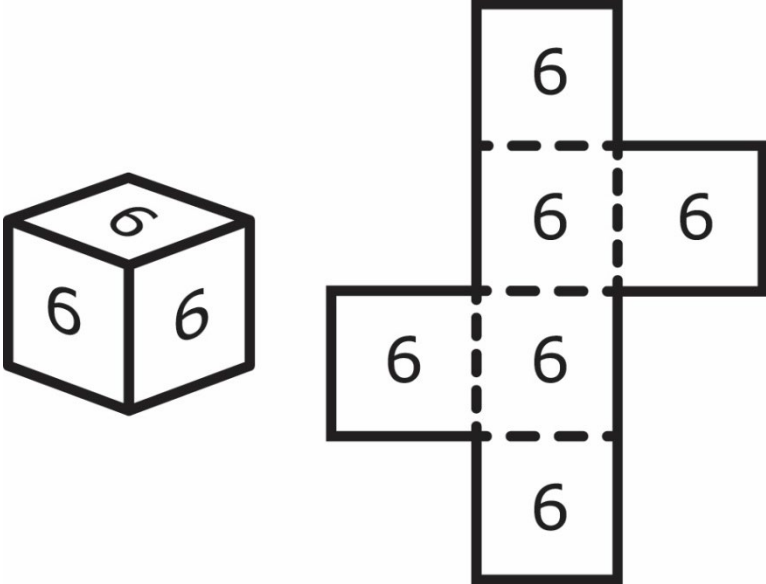
Session 2 - Item 31 Answer Options

A.  $-15$

B.  $+4$

C.  $-4$

Cube and Net 3 (Item 32)



**Session 2 - Item 32 Answer Options**

A. 6 square units

B. 18 square units

C. 36 square units

**Session 2 - Item 33 Answer Options**

A.  $-4$

B.  $+4$

C.  $+6$

**Session 2 - Item 34 Answer Options**

A. 3 flowers

B. 6 flowers

C. 12 flowers

# **LEAP CONNECT**

**Practice Test**