



Final Exam Revision WorkSheets-Trimester(3)-2017/2018

Student Name: ----- Grade 7() Date:---/06/2018

Question 1: Choose the correct answer.

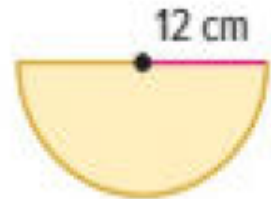
(1) Find the circumference of a circle with a diameter of 14cm.

Use $\frac{22}{7}$ for π .

- | | |
|----------|----------|
| a. 40 cm | b. 44 cm |
| c. 22 cm | d. 14 cm |

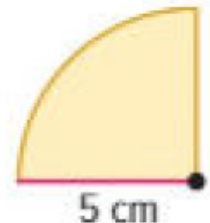
(2) Use 3.14 for π . Find the area of the semicircle shown at the right.

- | | |
|-------------|--------------|
| a. 18.84 cm | b. 37.68 cm |
| c. 56.52 cm | d. 226.08 cm |



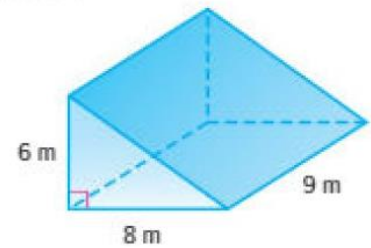
(3) Use 3.14 for π . Find the area of the quarter circle shown at the right.

- | | |
|-------------|--------------|
| a. 7.58 cm | b. 19.625 cm |
| c. 39.25 cm | d. 78.5 cm |



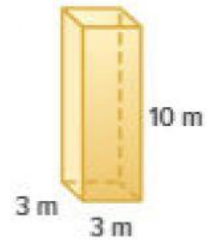
(4) Find the volume of the triangular prism shown.

- a. 40 cm b. 200 cm
- c. 216 cm d. 220 cm



(5) Find the volume of the prism shown at the right.

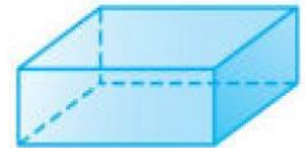
- a. 60cm^3 b. 90 cm^3
- c. 100cm^3 d. 120 cm^3



(6) If the volume of the box shown is 24 cm^3 .

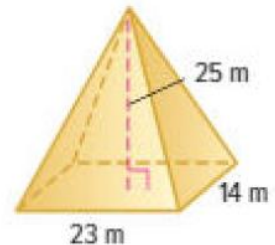
Choose the possible dimensions for the box.

- a. 3cm, 2cm, 2cm b. 3cm, 3cm, 2cm
- c. 4cm, 2cm, 2cm d. 3cm, 4cm, 2cm



(7) Find the volume of the pyramid shown.

- a. $2,683\text{ cm}^3$ b. $4,025\text{ cm}^3$
- c. $8,050\text{ cm}^3$ d. $8,100\text{ cm}^3$



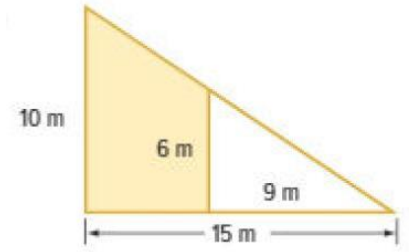
(8) Write the surface area formula of a cube with side length x .

- a. $S.A = x^3$ b. $S.A = 6x^3$
- c. $S.A = 6x^2$ d. $S.A = 4x^2$



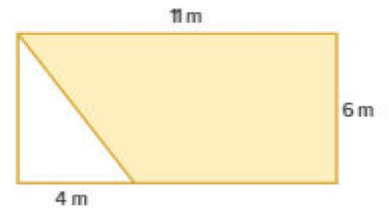
(9) Find the area of the shaded part.

- a. 25cm^2 b. 48 cm^2
c. 10 cm^2 d. 80 cm^2



(10) Find the area of the shaded part.

- a. 42cm^2 b. 54 cm^2
c. 62 cm^2 d. 78 cm^2



(11) Find the probability of rolling a 4 or 6 on the number cube.

- a. $\frac{1}{2}$ b. $\frac{2}{3}$
c. $\frac{1}{6}$ d. $\frac{1}{3}$

(12) A letter tile is chosen randomly. Find $p(\text{not I}) =$

- a. $\frac{4}{7}$ b. 4
c. $\frac{5}{7}$ d. $\frac{3}{7}$



(13) A coin is tossed 20 times, and it lands on picture 7 times.

Find the experimental Probability of the coin landing on picture.

- a. $\frac{1}{10}$ b. $\frac{7}{20}$
c. $\frac{13}{20}$ d. $\frac{1}{2}$



(14) Find the total number of outcomes when rolling a number cube and spinning a spinner with 3 equal sections.

- a. 9 b. 15
- c. 16 d. 18

(15) In how many ways can a president, vice president, and secretary be randomly selected from 10 candidates?

- a. 270 b. 810
- c. 700 d. 720

(16) A number cube is rolled and a marble is selected at random from the bag at the right. Find $p(3 \text{ and red})$

- a. $\frac{1}{24}$ b. $\frac{1}{4}$
- c. $\frac{3}{14}$ d. $\frac{1}{6}$



(17) A number cube is rolled and a letter is selected from the word **EMIRATES**. Find $p(\text{even and a constant})$

- a. 48 b. $\frac{1}{4}$
- c. $\frac{1}{12}$ d. $\frac{1}{2}$

(18) Hind is packing for a trip. In her closet, there are 3 red, 4 black, 2 green, and 2 yellow blouses. She randomly select two blouses. Find $P(\text{red and red})$

- a. $\frac{3}{55}$ b. $\frac{3}{121}$
- c. $\frac{6}{121}$ d. $\frac{3}{11}$

(19) Mariam won 25 of the last 30 games she played. Find the probability of Mariam winning the next game she plays.

a. $\frac{1}{3}$

b. $\frac{1}{6}$

c. $\frac{5}{6}$

d. $\frac{2}{3}$

(20) What number is 20% of 80?

a. 20

b. 16

c. 80

d. 60

(21) What is the percentage of likely probability?

a. 75%

b. 100%

c. 25%

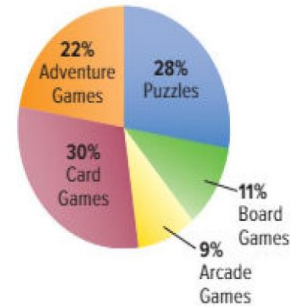
d. 50%



(22) The circle graph shows the results of an online gaming site conducted a survey to determine the types of games people play online. If 1,500 people participated in the study, How many people would play card games?

- a. 330
- b. 420
- c. 450
- d. 45,000

Games People Play Online



(23) A store manager sends an E-mail survey to customers who have registered at the stor's Website.

- a. simple random sample
- b. systematic random sample
- c. convenience sample
- d. voluntary response sample

(24) A store sells 3 types of pants: jeans, capris, and cargos. The store workers survey 50 customers at random about their favorite type of pants.



- a. simple random sample
- b. systematic random sample
- c. convenience sample
- d. voluntary response sample

Type	Number
Jeans	25
Capris	15
Cargos	10

(25) A magazine asks its readers to complete and return a questionnaire about popular scientists. The majority of those who replied liked one scientist the most, so the magazine decides to write more articles about the scientist.

- a. simple random sample
- b. systematic random sample
- c. convenience sample
- d. voluntary response sample

(26) A school district surveys the family of every tenth student to determine if they would vote in favor of the construction of a new school building.

- a. simple random sample
- b. systematic random sample
- c. convenience sample
- d. voluntary response sample

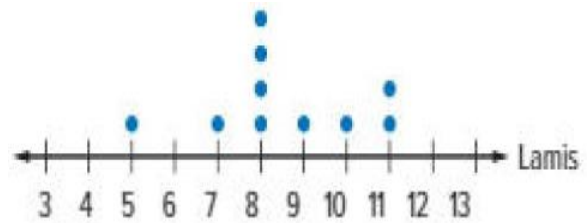
(27) The School Council advisor asked every tenth in the lunch line how they preferred to be conducted with school news. The results are shown in the table.

Method	Number
E-mail	16
Newsletter	12
Announcement	5
Telephone	3

- a. simple random sample
- b. systematic random sample
- c. convenience sample
- d. voluntary response sample

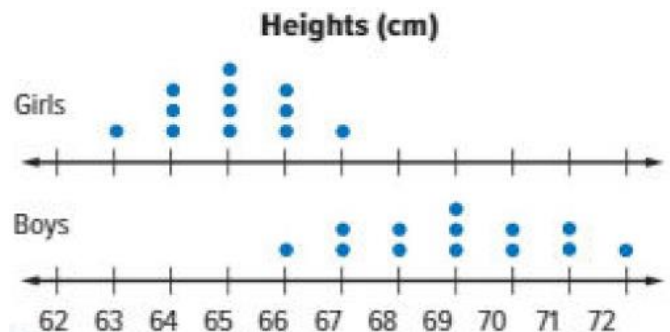
(28) The dot plot shows Lamis's number of hours worked. Find the median?

- a. 7
- b. 8
- c. 10
- d. 11



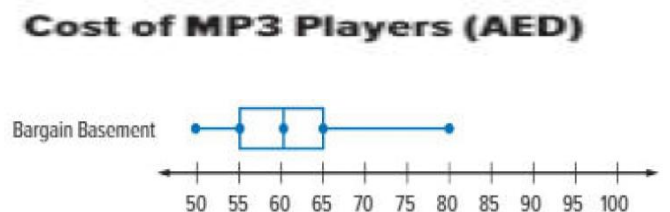
(29) The double dot plot shows the heights in centimeters for the girls and boys in Ms. Alia's Math Class. Find the boy's heights mean.

- a. 69
- b. 162.5
- c. 172
- d. 172.5



(30) The box plot shows the cost of MP3 player at a store. Find the interquartile range.

- a. 10
- b. 50
- c. 60
- d. 80



(31) Select an appropriate display for the data.

- a. circle graph
- b. double box plot
- c. line graph
- d. histogram

Number of Push-ups			
45	35	42	37
44	40	36	42
45	40	42	39
44	43	36	39

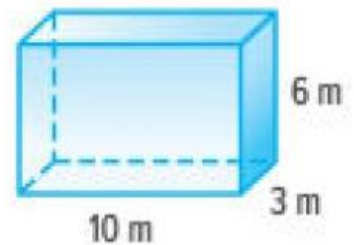
(32) Select an appropriate display for the data.

- a. circle graph
- b. double box plot
- c. line graph
- d. histogram

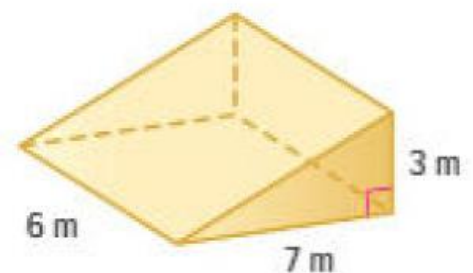
Age Group	Number of Texts per Day
11–15	25
16–20	23
21–25	17
26–30	10

Question 2: Answer the following questions. Show all your work.

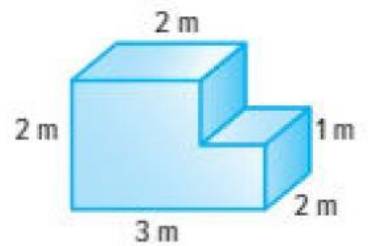
(33) Find the surface area of the prism on the right.



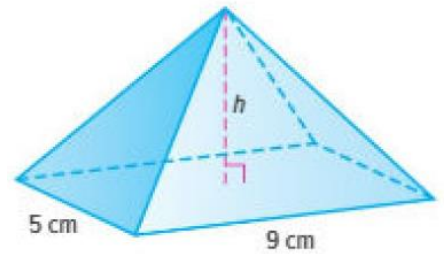
(34) Find the volume of the prism at the right.



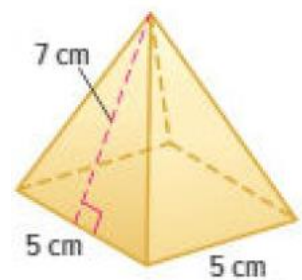
(35) Find the volume of the composite figure shown at the right.



(36) The rectangular pyramid shown has a volume of 90 cubic centimeters and a base area of 45 square centimeters. Find the height of the pyramid.



(37) Find the total surface area of the pyramid shown.



(38) A football team has many different uniforms. The coach can choose from three colors of blouse: green, yellow, and white. There are two colors of pants: black and blue.

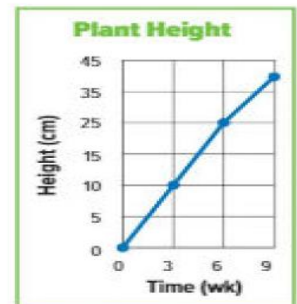


Use a tree diagram to find all blouse and pant combinations.

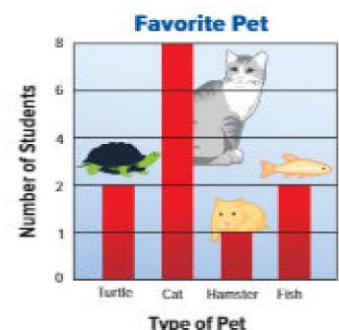
(39) There are 3 oranges, 3 bananas, and 4 apples in a fruit basket. Laila selects a piece of fruit at random and then Aisha selects a piece of fruit at random.

Find $p(\text{apple then orange})$.

(40) The graph shows the height of a plant after 9 weeks of growth. Why the graph is misleading?



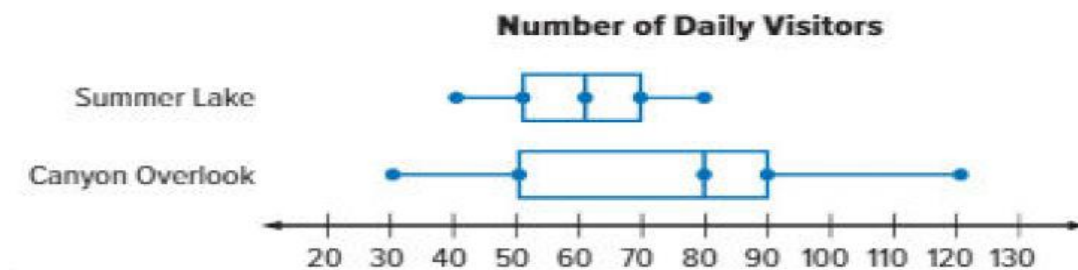
(41) The graph at the right shows the results of a survey to determine students' favorite pets. Why the graph is misleading?



(42) To determine how often her students tardy, Ms. Rana considered the attendance record for her first period class. Why is this graph misleading?



(43) The double box plot shows the number of daily visitors to two different parks. Compare the centers and variations of two populations. In general, which park has more daily visitors?



All Best Wishes Dear Students ... !



Ms. Suha AbdelHadi

