Enrichment Packet #25

Due: Monday

NAME: _____

Bonus: Worth $25 Robo Bucks!!!

Name: _____

Hoo's There?

NOTE: In each section, do NOT connect the last point back to first point.

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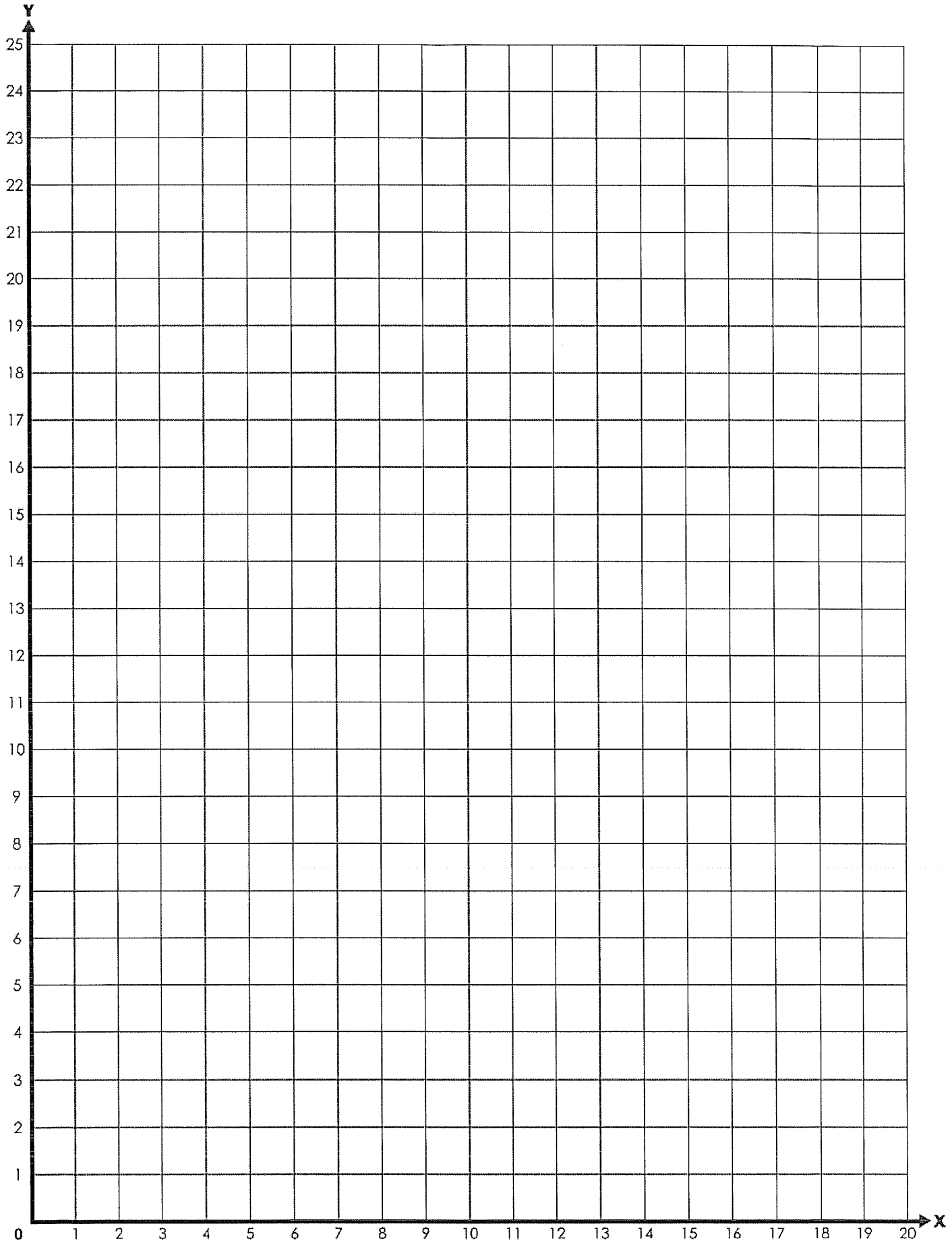
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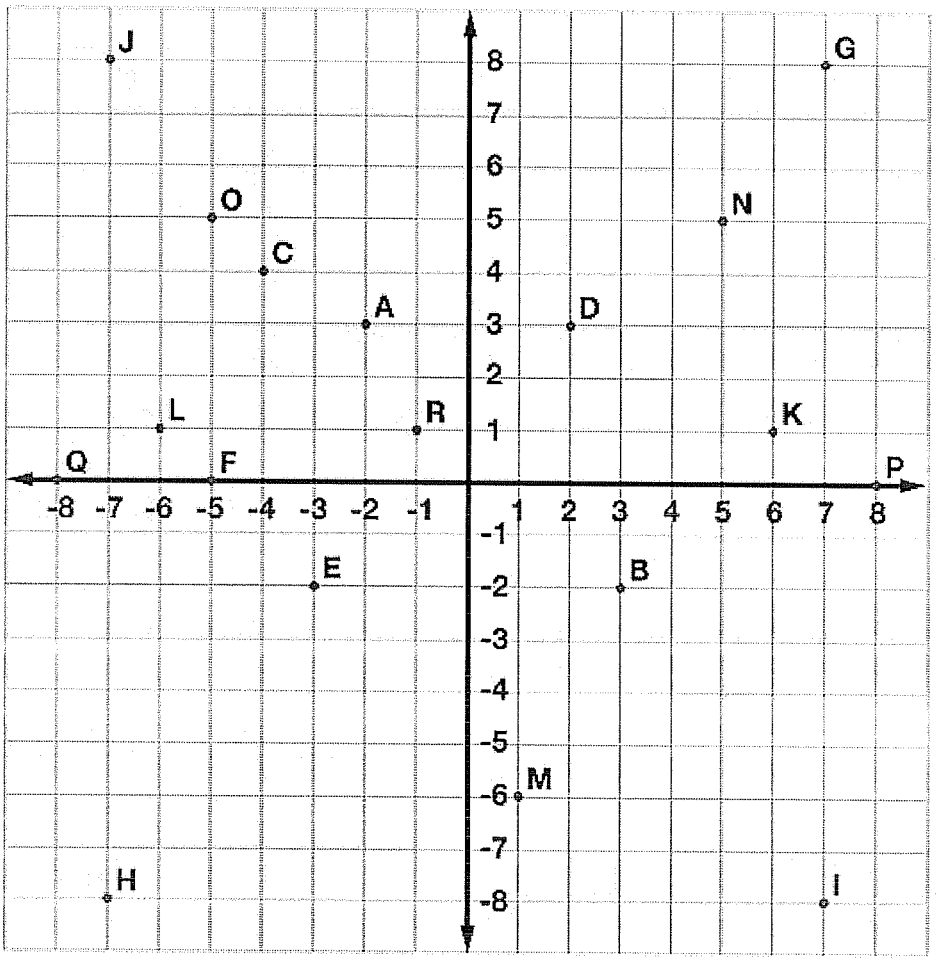
Name: _____ Coordinate Plane & Ordered Pairs

Ordered Pairs



Tell what point is located at each ordered pair.

1. **(3,-2)** _____
2. **(2,3)** _____
3. **(-5,5)** _____
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5. **(-4,4)** _____
6. **(-5,0)** _____

Write the ordered pair for each given point.

7. **E** _____
8. **M** _____
9. **P** _____
10. **G** _____
11. **Q** _____
12. **N** _____

Plot the following points on the coordinate grid.

13. **S (-6,-3)**
14. **T (2,-4)**
15. **U (5,8)**

Learn Math: Worksheet 12 Average

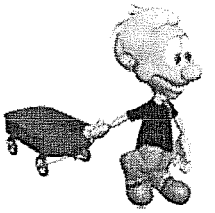
Learn math: Average: word problem 1

Three aliens from Planet Xkon landed near a basketball court on Earth and decided to play basketball with the locals. The aliens trounced the locals because of their height. The average height of the 3 aliens was 7.28 m. Zirkon was thrice as tall as Wirkon but 0.7 m shorter than Firkon. What was the average height of Zirkon and Firkon?

Learn math: Average: problem 2

Poor Fulbah was possessed by the devil and was crawling up walls and ceilings. His desperate parents took him to the local witch doctor to get rid of the devil. The resourceful doctor tied up Fulbah and applied slugs, leeches and centipedes on his body. The average number of each type of creature was 186. The number of slugs on his body was 4 times as much as the centipedes but 450 fewer than the leeches. The devil eventually fled back to hell. What was the average number of slugs and leeches on Fulbah's body?

Learn math: Average: word problem 3



Three giants begged Gary to make 3 carts for them. Kind Gary made 3 enormous carts for them. The average mass of the carts was 622 kg. The green cart was thrice as heavy as the blue cart but 55.45 kg lighter than the white cart. When one of the giants sat on the green cart, the cart broke and the poor giant got a splinter in his rump. What was the average mass of the remaining carts?

Printable math work: Average: problem 4

Three brothers entered a gorilla-wrestling competition. The person who could pin the savage gorilla the fastest would get the first prize of 100 Bolivian banana trees. They took an average of 1 hr 48 min to pin the gorilla. Ah Seng took twice as long as Ah Beng to pin the gorilla. But Ah Seng was 14 min faster than Ah Meng. However, Ah Seng left the competition in a stretcher because the gorilla had pulled out his tongue. What was the average pin time of the other 2 contestants?

Learn math: Average: word problem 5

Mark, Sam and Andy bought 3 Christmas trees. The average height of the 3 trees was 9.58 m. Mark's tree was twice as tall as Andy's tree and 0.86 m taller than Sam's tree. On Christmas Day, a raccoon bit one of the wires of Andy's tree. The raccoon was electrocuted. The tree caught fire and burnt to the ground. What was the average height of the remaining trees?

Learn math: Average: problem 6

Three boys in my school never took a bath in their dirty lives. So of course, they are plagued by fleas. The average number of happy fleas residing in each boy's smelly armpits is 58. Joe has 4 times as many fleas as Brian and 96 more fleas than Mark. What is the average number of fleas Mark and Joe have?

Learn math: Average: word problem 7

Shirley was cycling along a mountain path one day. As she rounded a corner, she was surprised to see 3 grinning trolls in front of her. She shot them with her rifle, slung them over her shoulder and cycled home. The average mass of each troll was 346 kg. The two-headed troll was thrice as heavy as the three-eyed troll and 23.2 kg heavier than the four-legged troll. Shirley's mom barbecued the three-eyed troll for dinner. What was the average mass of the remaining trolls?

Printable math work: Average: problem 8

I own 3 dinosaurs - a Diplodocus, a Brachiosaurus and a T. rex. I brush their teeth once a month. On average, it takes me 2 hr 8 min to brush each dinosaur's teeth. It takes me twice as long to brush the T. rex's teeth as the Diplodocus' teeth. It also takes me 36 mins longer to brush the T. rex's teeth than the Brachiosaurus' teeth. One day, my dear T. rex ran away and ate my neighbor's dog. It was shot by the police. How long does it take me on average to brush my remaining dinosaurs' teeth?

Learn math: Average: word problem 9

Mary Crouter is a medical student who wants to improve her grades. So far, she has scored 89, 75, 92 and 82 for her four tests. She wants to improve her average mark by 2.5. How many marks does she have to score for her next nail-biting test?

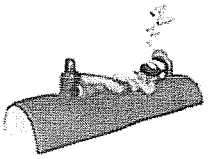
Learn math: Average: problem 10

Chandran caught 70, 66, 62, 76 and 71 cockroaches on his first five days as a janitor. He desperately wishes to improve his average number of cockroaches caught per day by 5. How many cockroaches must he catch the next day?

Learn math: Average: word problem 11

A horde of giant centipedes invaded Saudinia last Saturday. King Klong rushed to a shop and bought a sword, a magic spell, a shield, a flying horse and a chain mail. He paid $79, $49, $39, $29 and $59 respectively for the items. As he was walking out of the shop, a talking monkey caught his fancy and he bought it too. After buying the monkey, the average cost of each item increased by $8. How much did he pay for the monkey?

Printable math work: Average: problem 12
I had a party last night. First 58 camels walked in. Then 54 zebras and 65 cows sauntered in. A short while later, 71 penguins waddled in. At the stroke of midnight, a pride of cool lions trotted into my house. The pride of lions increased the average number of each type of animal by 3. How many lions partied with us?

Learn math: Average: word problem 13

Logger Liam sleeps on a log every day after work. However, every time he wakes up he would find himself covered with leeches. From Monday to Thursday last week, he woke up with 68, 75, 68 and 89 leeches sucking his blood each day. He had fewer leeches on Friday so that his overall average per day dropped by 5. How many leeches stuck to him on Friday?

Learn math: Average: problem 14
My pet monkey could play the piano like a pro. I asked him to play the Moonlight Sonata very fast. On his first 5 tries, he played 82 s, 78 s, 75 s, 80 s and 75 s. I told him to play exceptionally fast for the 6th time. He did it and dropped the overall average by 2 s. How fast did my marvelous monkey play on his last try?

Learn math: Average: word problem 15

Gardener Gary was very good at planting rose bushes. Last Sunday, it took him 133 s, 121 s, 120 s, 127 s, 123 s and 126 s to plant the first 6 rose bushes. I challenged him to improve his overall average by 1 s. How fast must he plant his next rose bush?

Printable math work: Average: problem 16
Gross Gary picks his nose and makes beautiful miniature sculptures out of his green snot. People far and wide come to his shop to buy his exquisite sculptures. The number of sculptures he sold to ecstatic customers from January to April for each month was 435, 482, 504 and 467. He picked his nose so hard in May that it began to bleed and he had to stop production before the end of the month. His average number of sculptures sold per month dropped by 40 as a result. How many sculptures did he sell in May?

Learn math: Average: word problem 17

Karate Kok Leong and Sumo Susumu were slated to fight each other in March. In January, Susumu was twice as heavy as Kok Leong. But Susumu wanted to lose some weight so that he could give some powerful flying kicks. When the day of the fight arrived, Susumu had lost 22.8 kg. He was 30.6 kg heavier than Kok Leong after that.
a) What was Susumu's mass on the day of the fight?
b) What was the average mass of the two fighters on the day of the fight?

Learn math: Average: problem 18
My father who is a barber has 2 big bags in which he keeps his customers' cut hair. At the end of June, the red bag contained a third as much as the green bag. On the first day of July, my soft-hearted grandma took 118.7 kg of hair from the green bag and knitted them into some beautiful socks and sweaters for our pet Pug. The green bag had 88.8 kg more hair than the red bag after that.
a) What was the mass of the hair in the green bag on the 1st of July?
b) What was the average mass of the 2 bags after that?

Learn math: Average: word problem 19

Mad Scientist Manolo was trying to create a rat that could fly. So he made a special potion and kept it in two bottles. The small bottle contained a quarter as much potion as the big bottle. Over the month of December, he used 2 liters 334 milliliters (2 l 334 ml) of the potion in the big bottle on his lab rats. The big bottle contained 852 ml more potion than the small bottle after that. One rat grew butterfly wings and flew to Mouseville.
a) How much potion was left in the big bottle at the end of December?
b) What was the average amount of potion in each bottle in the end?

Printable math work: Average word problem 20
Chuluun and Odval were tired of thundering across the plains of Mongolia on their horses. They went to a magic shop to buy some special steeds. Odval had thrice as much money as Chuluun. Odval bought a hideous harpy for $108.40. She had $66.60 more than Chuluun after that. Chuluun was disgusted when the harpy began to pick its nose so she wasn't in any mood to buy a steed for herself.
a) How much did Odval have after that?
b) What was the average amount of money the 2 Mongolians had after that?

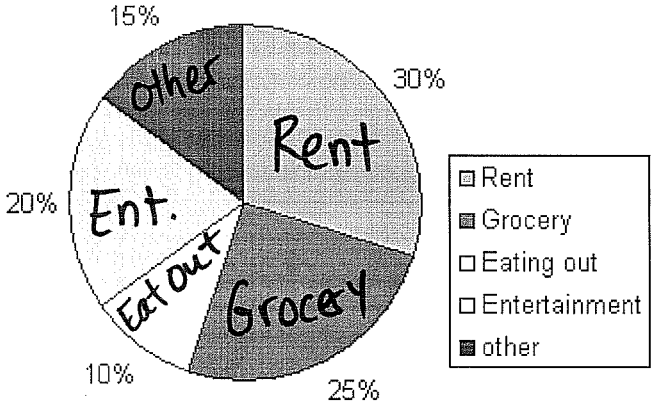
Name: _____ Grade: 5 Date: 4/19/2011

Instructions: Answer the following questions.

Question 1

The pie chart below shows how Mr. Davis distributes his monthly income into different household expenses. See the Pie Chart to answer the following question.

What portion of the monthly income does Mr. Davis spend on entertainment?



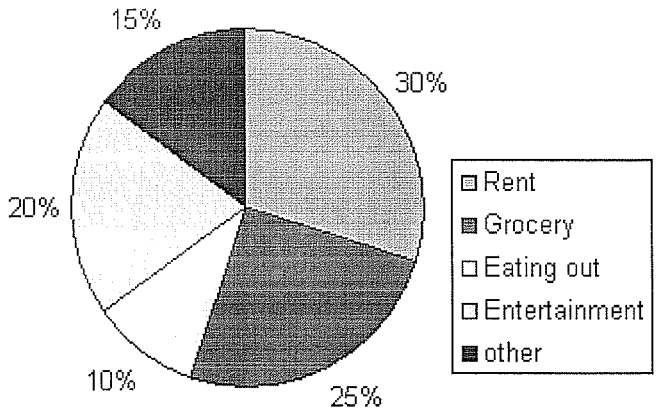
A. 10% **B.** 20%

C. 30% **D.** 25%

Question 2

The pie chart below shows how Mr. Davis distributes his monthly income into different household expenses. See the Pie Chart to answer the following question.

In which of the following categories does Mr. Davis spend the greatest portion of his income?



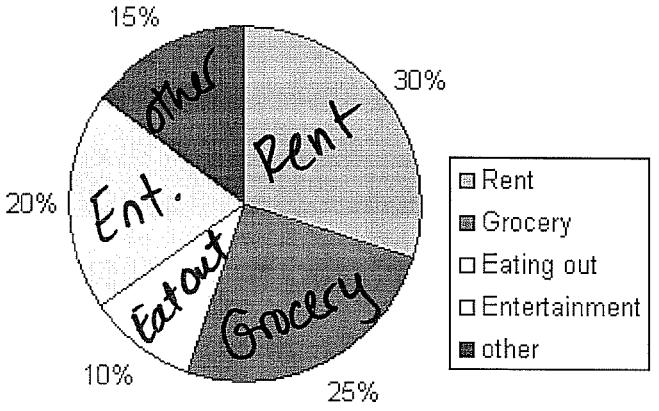
A. Grocery **B.** Entertainment

C. Eating out **D.** Rent

Question 3

The pie chart below shows how Mr. Davis distributes his monthly income into different household expenses.
See the pie/circle chart to answer the following question.

What fraction of the income does Mr. Davis spend on groceries?



A. $\frac{1}{4}$

B. $\frac{1}{2}$

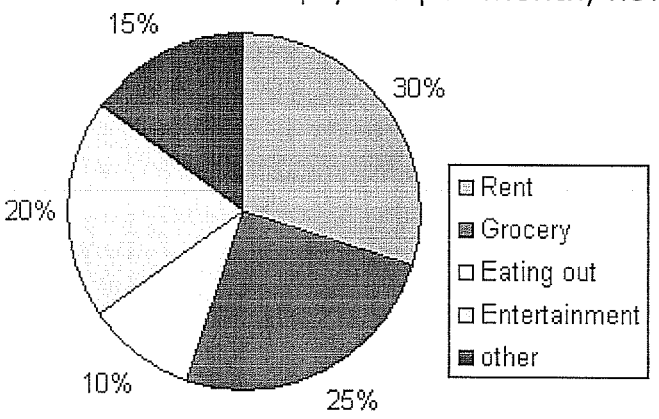
C. $\frac{1}{10}$

D. $\frac{3}{4}$

Question 4

The pie chart below shows how Mr. Davis distributes his monthly income into different household expenses.
See the pie chart to answer the following question.

If Mr. Davis earns $2,000 per month, how much does he spend on groceries?



A. $1,000

B. $250

C. $500

D. $700

Question 1
Alice was at a playground on Monday when suddenly a UFO landed. The hatch opened and 2 green-eyed aliens and 5 hairy-nosed aliens got out to greet her. Alice caught them and took them home. When she put them on a weighing scale, she found that their total mass was 36.33 kg. What was the average mass of each alien?

Question 2
Alice was at a park on Tuesday. 3 gnomes and 6 fairies suddenly dropped out of a tree and greeted her. The total age of the creatures was 380 yr 3 mth. What was the average age of each creature?

Question 3
Alice went to a pet shop on Wednesday. She needed some fierce guard dogs to protect her house. She bought 4 massive mastiffs and 4 drooling werewolves for a total of $53.20. What was the average price of each animal?

Question 4
Alice went scuba diving on Thursday. When she was underwater she saw 6 catfish, each with a mass of 150 g. She also spotted 2 starfish, each with a mass of 325 g. She finally met a cute little mermaid with a mass of 790 g. She shook hands with all of them and then cooked them for supper. What was the average mass of the sea creatures?

Question 5
Bob's father gave him 3 toy cars and 4 toy trucks on his birthday. He crashed them against a fire hydrant the whole day just for the fun of it. The total mass of the toys was 152.6 kg. What was the average mass of each toy?

Question 6
Bob passed his end-of-year exams with flying colors. His delighted father gave him 2 hamsters and 6 porcupines. When Bob weighed them, he found that the total mass of his pets was 6 kg 800 g. What was the average mass of each pet?

Question 7
Bob was walking in the forest last month when he spied a castle in the distance. When he arrived at the castle, there was a hulking troll and 8 menacing gnomes blocking his path. Brave Bob dispatched them with his mace. If the total height of the 9 guards was 28 m 98 cm, what was the average height of each guard?

Question 8
Bob was thirsty after killing all those guards. He entered the castle looking for water but instead he found 4 bottles and 1 glass full of banana flavored frog shake. The total amount of frog shake in the containers was 9 liters 185 milliliters (9 *l* 185 ml). What was the average capacity of each container?

Question 9
Dr. Dravinsky is a robot surgeon. He is so good at repairing robots that all the grateful robots in his house live a long life. He has 3 robots named Xekon, Bekon and Mekon. The average age of the 3 robots is 38 years. The average age of Mekon and Xekon is 44 years. How old is Bekon?

Question 10
Muthu wanted to summon a demon from hell to help him with his hellish math homework. So Muthu went to Magician Mordo's Magic Shop to buy an Australian elephant, a Japanese jackal and a Hawaiian hyena - all very rare animals indeed. The demon would come if he sacrificed those animals on a full moon. The average cost of the 3 animals was $1365. The average cost of the elephant and the jackal was $1745. How much did the hyena cost?

Question 11 Bauwina, Palmira and Tanja are 3 hardworking milkmaids. It takes them an average of 127.4 seconds to milk a cow. Bauwina and Palmira take an average of 106.6 seconds to milk a cow. How long does it take Tanja to milk a cow?

Question 12
Sinbad's ship sank and he swam to a deserted island. There he met a cyclops, a troll and a giant eagle who all wanted to have him for dinner. Sinbad killed them with his scimitar and had them for supper instead. The average height of the 3 monsters was 23 m 18 cm. The average height of the troll and the eagle was 20 m 62 cm. What was the height of the bleary-eyed cyclops?

Question 13
Mr. Shankar had 4 kids. He gave them some money on New Year's Day. Each delighted kid had an average of $102 after that. The total amount that Anu and Mano had was $48 more than the total amount Sumathi and Premala had. Anu had $85. How much did Mano have?

Question 14
My father, a genetic scientist, genetically modified a monkey, a donkey, a cow and a whale and gave them to me on my birthday. I keep them in my bedroom and play board games with them when I am bored. The average mass of the 4 animals is 59 kg. The total mass of the monkey and the donkey is 14 kg more than the total mass of the cow and the whale. The mangy monkey has a mass of 73 kg. What is the mass of the donkey?

Question 15
My father also genetically modified the height of my 4 brothers who had been born as dwarves but aspired to become football heroes. Their average height now is a respectable 1.76 m. The total height of Bob and Simon is 94 cm more than my other 2 brothers. Ted's height is 1.45 m. What is Charles' height?

Question 16
I took my wife to Pizza Mutt and ordered a porcupine pizza, an ostrich wing, a leech lasagna and toad soup. We had a good dinner although my wife almost choked on a porcupine quill. The average price of each item was $93.75. The total price of the porcupine pizza and the ostrich wing was $115.90 cheaper than the total price of the other 2 items. The lovely leech lasagna cost $35.20. How much did we pay for the toad soup?

Question 17
I visited a terribly expensive petting zoo yesterday. I had a great time there playing with the animals. I also went on some rides. I rode 5 cute giant insects and 2 vicious reptiles - a crocodile almost bit off my tongue when I tried to kiss it. The average amount of money I spent on each insect ride was $1278. The average amount of money I paid for each reptile ride was $1950. How much did I pay on average for each ride?

Question 18
Adriano went to a jewelry shop to buy 2 pendants and 4 bracelets for his lovely wife. He spent an average of $534 on each pendant and an average of $399 on each bracelet. What was the average price of each item?

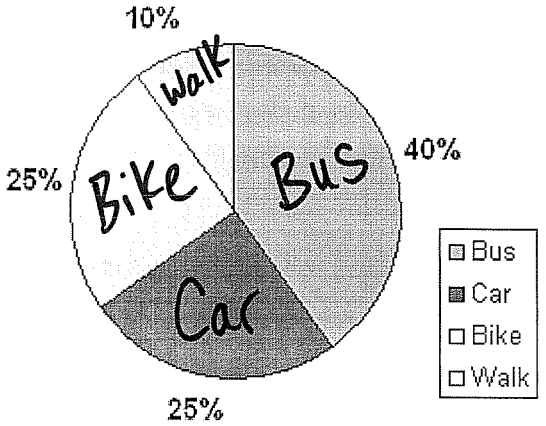
Question 19
Shura the serial killer was talking to his neighbor over the fence one fine day. Suddenly a bolt of lightning struck him. When Shura woke up in hell, 12 devils and 5 imps were jumping on his bloated stomach. The average mass of each devil was 72.7 kg. The average mass of each imp was 33.6 kg. What was the average mass of each unholy creature?

Question 20
Gallus the gladiator had a match with a Minotaur coming up in a week's time. Gallus went to a shop and bought 6 swords and 2 maces. He spent an average of $87 on each sword and an average of $27 on each mace. What was the average price of each weapon?

Question 5

A middle school surveyed its students to find out how they commute to school everyday. The data of the survey are presented in the following pie chart. See the circle/pie chart to answer the following question.

If 100 students responded to the survey, how many students were car riders?



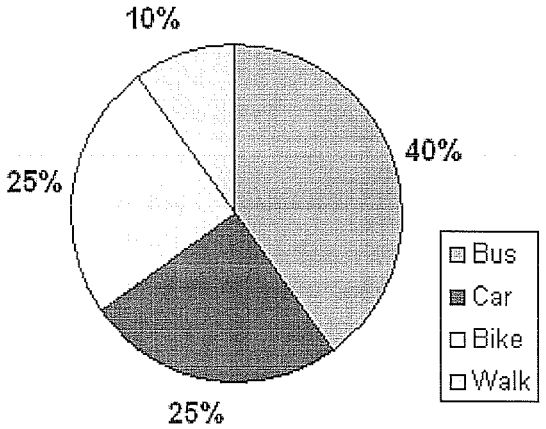
A. 50 **B.** 10

C. 40 **D.** 25

Question 6

A middle school surveyed its students to find out how they commute to school everyday. The data of the survey are presented in the pie chart shown below. See the pie chart to answer this question.

If 200 students responded to the survey, how many are either bike or car riders?



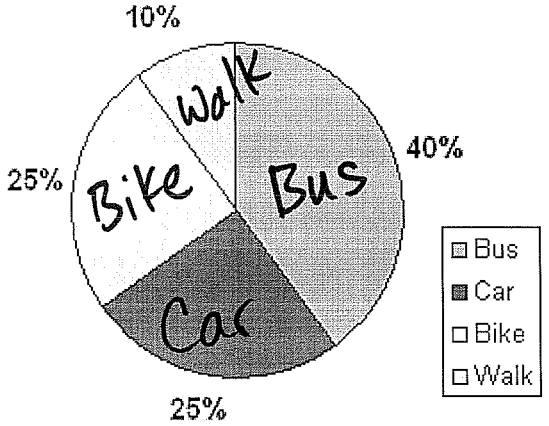
A. 50 **B.** 100

C. 60 **D.** 10

Question 7

A middle school surveyed its students to find out how they commute to school everyday. The data of the survey are presented in the following pie chart. See the pie chart to answer this question.

Which was the least common way of commute among the students?



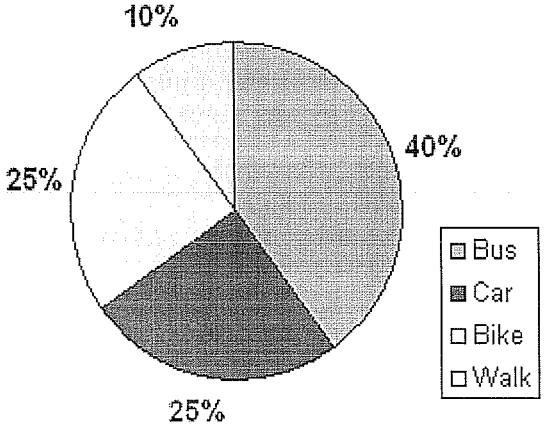
A. Bus **B.** Car

C. Walk **D.** Bike

Question 8

A middle school surveyed its students to find out how they commute to school everyday. The data of the survey are presented in the following pie chart. See the pie chart to answer this question.

Which two ways of commute got equal numbers of votes from students?



A. Bike and Car **B.** Car and Bus

C. Bike and Walk **D.** Bus and Walk

Question 9

Which of the following graphs would you choose to show the increase in gas prices in a country over 3 years?

A. Bar graph **B.** Pictograph

C. Circle graph **D.** Line graph

Question 10

Which graph would you choose to show the percentage of various nutrients in a food item?

A. Bar Chart **B.** Circle/Pie Chart

C. Line Chart **D.** Stem and Leaf plot

Name: _____

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☐ (-10, 11)
☐ (-10, 9)
☐ (-9, 8)
☐ (-7, 8)
☐ (-6, 9)
☐ (-6, 11)
STOP
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☐ (9, 12)
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☐ (10, 9)
☐ (9, 8)
☐ (7, 8)
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STOP
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☐ (2, 19)
STOP
☐ (2, 4)
☐ (2, 1)
STOP

(X, Y)
☐ (-6, 6)
☐ (-7, 7)
☐ (-9, 7)
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☐ (-7, 4)
☐ (-6, 5)
☐ (-6, 6)
STOP
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☐ (7, 7)
☐ (9, 7)
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☐ (10, 5)
☐ (9, 4)
☐ (7, 4)
☐ (6, 5)
☐ (6, 6)
STOP
☐ (6, 1)
☐ (6, -1)
☐ (7, -1)
☐ (7, 0)
☐ (8, 1)
☐ (9, 0)
☐ (9, -2)
☐ (10, -2)
☐ (10, 1)
☐ (9, 2)
☐ (7, 2)
☐ (6, 1)
STOP
☐ (2, 15)
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☐ (-2, 14)
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STOP

(X, Y)
☐ (-6, 1)
☐ (-6, -1)
☐ (-7, -1)
☐ (-7, 0)
☐ (-8, 1)
☐ (-9, 0)
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☐ (-10, -2)
☐ (-10, 1)
☐ (-9, 2)
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STOP
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☐ (1, 16)
STOP
☐ (-1, 16)
☐ (-3, 16)
☐ (-3, 18)
☐ (-1, 18)
☐ (-1, 16)
STOP
☐ (-3, 11)
☐ (-3, 8)
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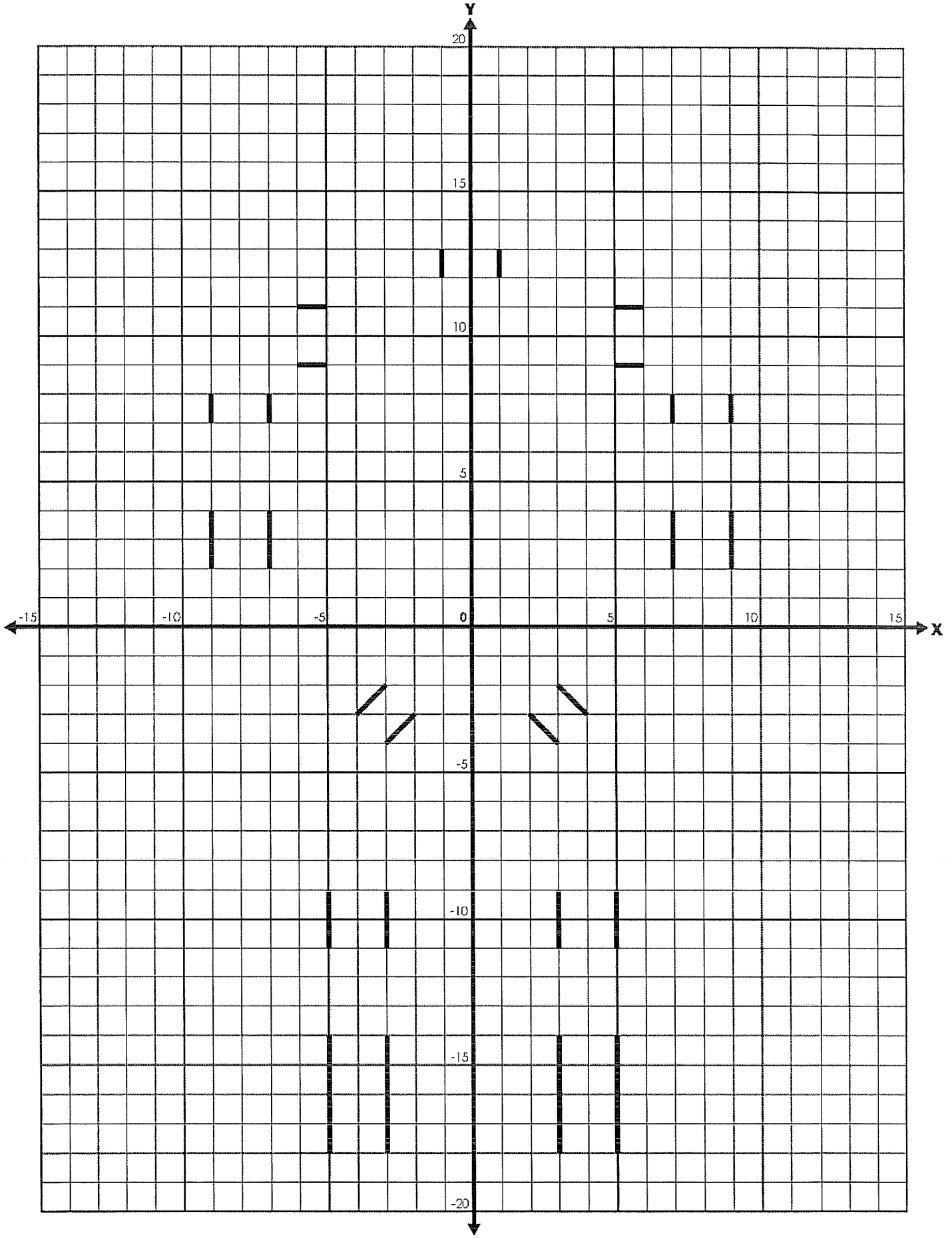
☐ (3, 11)
☐ (-3, 11)
STOP
☐ (-2, 4)
☐ (-2, 1)
STOP

Now color your picture.


Y
20
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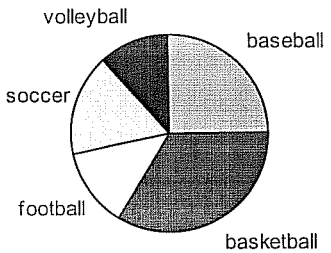
Name _____ Date _____

Independent Practice 2: Reading Circle Graphs

Graph #1
Favorite Team Sports



1. A survey asked 300 students to name their favorite team sport. Based on the data in Graph #1, about how many students preferred baseball?

   A. 10 B. 25 C. 75 D. 90 E. 100

2. About how many students preferred basketball?

   A. 150 B. 100 C. 70 D. 50 E. 30

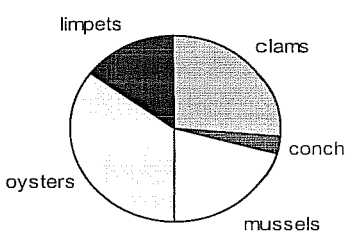
3. Approximately how many students **did not** prefer volleyball?

   A. 90 B. 150 C. 200 D. 250 E. 290

4. Tessa and Connor went beachcombing and came back with a small bucketful of shells. Based on the data in Graph #2, what type of shells accounted for about 15% of their collection?

   A. clams B. conch C. mussels
   D. oysters E. limpets

Graph #2
Types of Seashells



5. Which type of shell accounted for about 35% of their collection?

   A. clams B. conch C. mussels
   D. oysters E. limpets

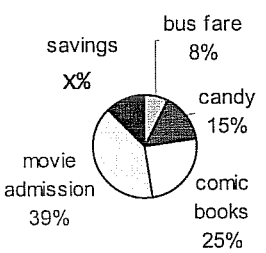
6. About What percent of the collection is made up of clams?

   A. 12% B. 20% C. 25% D. 33% E. 40%

7. Which two types of shells combined account for about 25% of the collection?

   A. clams and conch B. mussels and conch C. conch and limpets
   D. mussels and limpets E. limpets and clams

Graph #3
How Emma Spent her Allowance



8. Emma decided to spend most of her $20 allowance and save the rest of it. According to Graph #3, how much did Emma put in her savings account?

   A. $0.26 B. $0.60 C. $1.60 D. $2.60 E. $26

9. How much did Emma spend on comic books?

   A. $0.05 B. $0.50 C. $2.50
   D. $5.00 E. $5.50

10. How much did she spend on things other than comic books?

    A. $15.00 B. $12.40 C. $10.24
    D. $5.50 E. $1.24

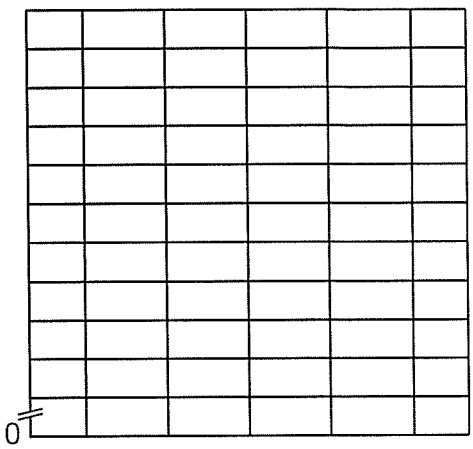
Name _____

Exploring Making Line Graphs

Mr. Williams is 5 ft 10 in. tall and has a large frame. He wants to find his ideal weight. All he has to help him is the chart below:

Ideal Weights for Men, Ages 24–59 (in pounds)			
Height	Small Frame	Medium Frame	Large Frame
5 ft. 2 in.	128-134	131-141	138-150
5 ft. 4 in.	132-138	135-145	142-156
5 ft. 6 in.	136-142	139-151	146-164
5 ft. 8 in.	140-148	145-157	152-172

1. Make a line graph showing ideal weights for large-frame men. Graph only the weight half-way between each end of the range. For example, the weight you should graph for a large-frame man who is 5 ft 2 in. tall is 144 pounds.



2. The ideal weight of a man 5 ft 5 in. tall should be half-way between the ideal weights of men 5 ft 4 in. and 5 ft 6 in. tall. What is the ideal weight for men 5 ft 5 in. tall? _____

3. What is the ideal weight for men 5 ft 7 in. tall? _____

4. Mr. Williams' weight is not shown on the line graph. Based on the data what would you expect his ideal weight to be? Why?

_____

_____

_____

5. Graph the ideal weight for large-frame men 5 ft 10 in. tall.

Design your own survey!

Team Members: _____

_____

What is your question? _____

_____

How will you collect your data? _____

_____

_____

How will you display your data (what type of graph or plot)? _____

_____

_____

Notes: _____

_____