STATION 1

Determine whether the relationship is proportional or not.
Justify your answer.

A

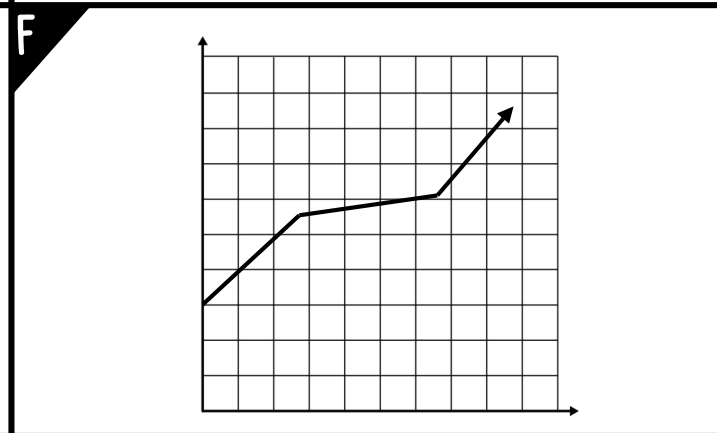| x	4	8	12	16	20
y	3	6	9	12	15

B
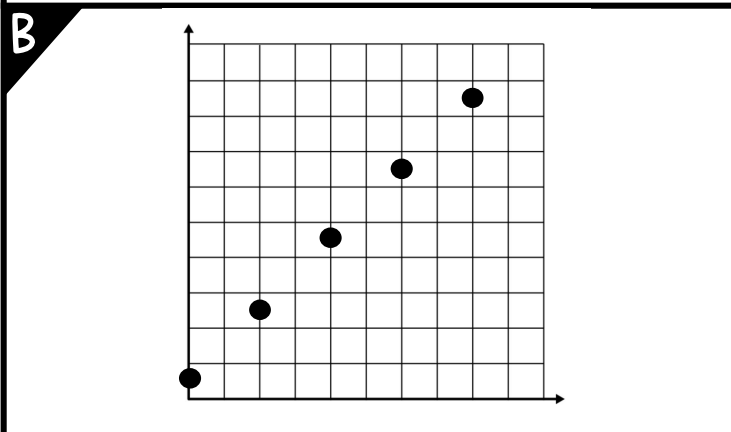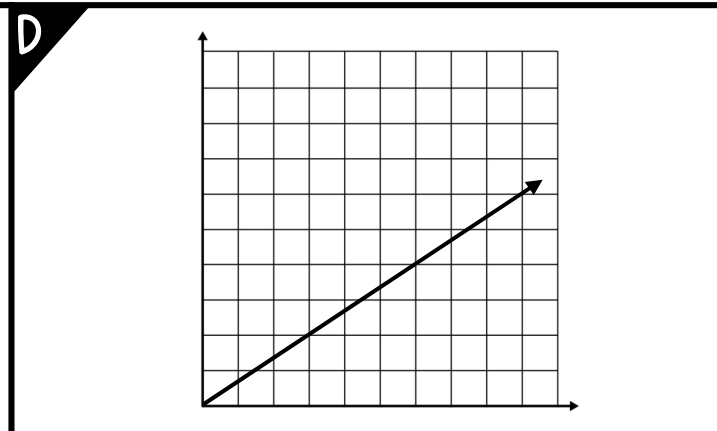
C

x	2	4	6	8	10
y	12	24	36	48	60

D

E

x	1	2	3	4	5
y	1	3	5	7	9

F

STATION 2

Determine the constant of proportionality in each of the representations below.

A

x	2	4	6	8	10
y	7	14	21	28	35

C

$$y = 2.75x$$

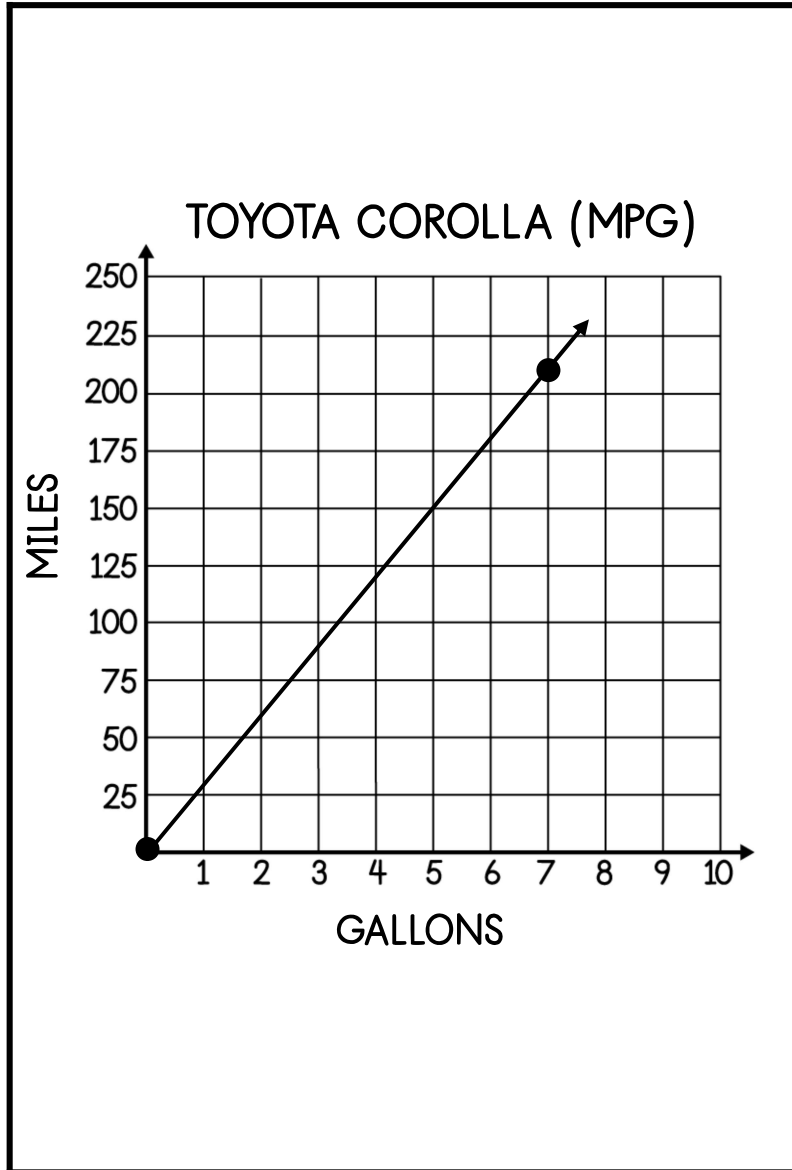**B**

ZOO ADMISSION

DOLLARS vs NUMBER OF TICKETS
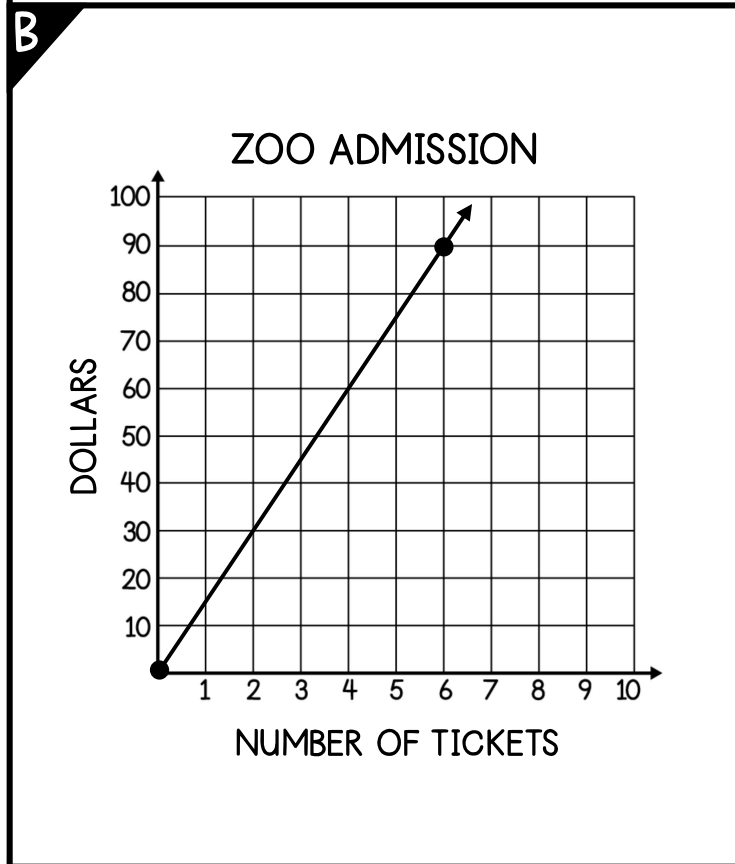
D

A video game developer projects that he will earn $65.00 for every 5 games purchases. Write an equation to represent the proportional relationship between the number of games and the total earnings.

E

x	0	3	6	9	12
y	0	12	24	36	48

STATiON 3

TOYOTA COROLLA (MPG)

MILES

250
225
200
175
150
125
100
75
50
25

1 2 3 4 5 6 7 8 9 10

GALLONS

A

In this situation, what does the ordered pair (0, 0) represent?

B

How can the constant of proportionality be represented with an ordered pair?

C

Write an equation to represent the gas mileage of the Toyota Corolla.

STATION 4

Use the table to answer the questions below.

STARBUCKS STORE MANAGER WAGES

HOURS	$ EARNED
2	$27.00
4	$54.00
6	$81.00
8	$108.00
10	$135.00
12	$162.00
14	$189.00

A The store manager earns $310.50 in one week. How many hours did the manager work?

B During November, sales are at their peak. The store manager must work 40 hours that week. How much will the manager earn?

C Write an equation to represent the proportional relationship between the hours worked and the total earnings.

STATION 5

Write an equation to represent the proportional relationships below.

A

The cost of a 4 pack of apple juice is $2.24. Write an equation that relates the cost in dollars, y, to the number of apple juice cartons, x.
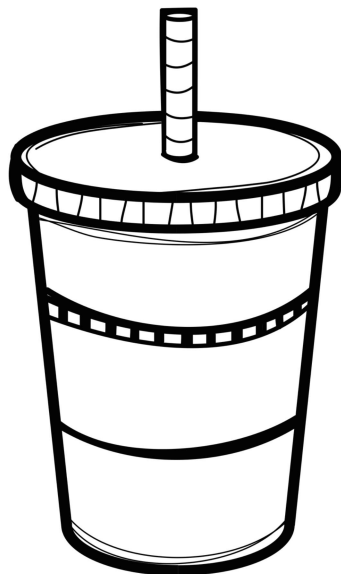
B

A marathon runner is able to run 15 miles in 3 hours. Write an equation that relates the number of miles, y, to the number of hours, x.
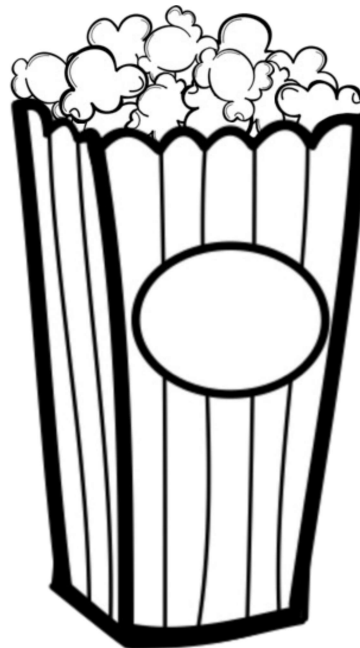
C

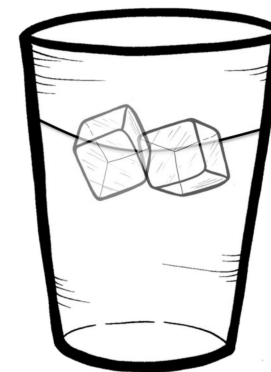A 12 ounce latte costs $3.00. Write an equation that relates the cost in dollars, y, to the number of ounces, x.

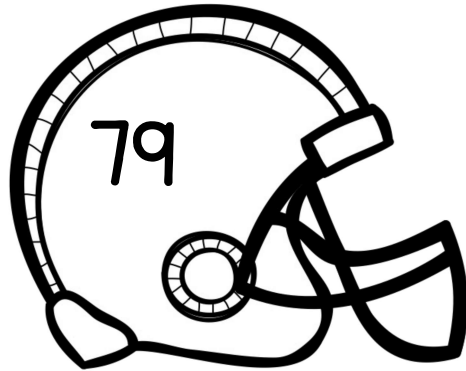Compute the unit rate for each of the items below.

44 oz
$5.72

50 oz
$6.00

32 oz
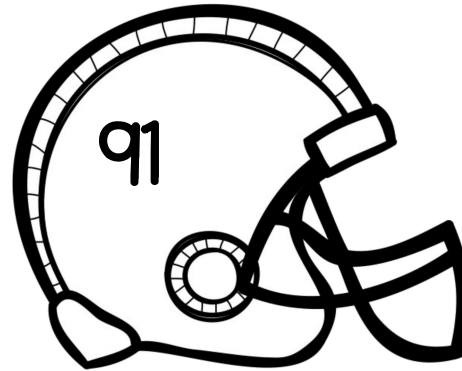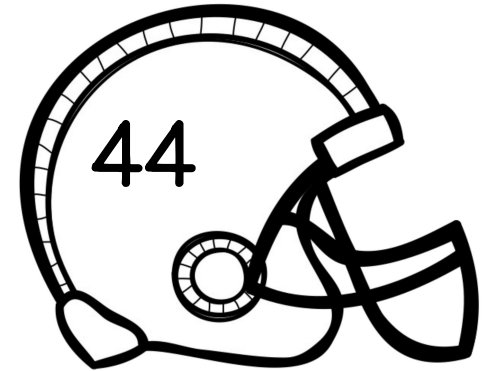$3.84

Compute the unit rate for each member of the football team below.

79

RUNS $\frac{1}{3}$ OF A MILE

EVERY $\frac{1}{4}$ HOUR

91

RUNS $\frac{5}{6}$ OF A MILE

EVERY $\frac{3}{4}$ HOUR

44

RUNS $\frac{3}{4}$ OF A MILE

EVERY $\frac{1}{2}$ HOUR

Change the recipe below so that it serves one.

CHICKEN POT PIE

$2\frac{1}{4}$ cups of pastry dough

$2\frac{1}{2}$ cups vegetables, chopped

$\frac{1}{4}$ of a cup of butter

salt and pepper to taste

$1\frac{1}{2}$ cups of chicken

*serves four

Name _____

Date _____ Pd _____

Unit: Proportional Relationships
Stations

PROPORTIONAL RELATIONSHIPS STATIONS

Show all your work in the appropriate box below.

STATION 1

A | B | C

D | E | F

STATION 2

A | B | C | D | E

STATION 3

A | B | C

STATION 4

A | B | C

STATION 5

A	B	C

STATION 6

SODA	POPCORN	LEMONADE

STATION 7

#79	#91	#44

STATION 8