Grade Seven

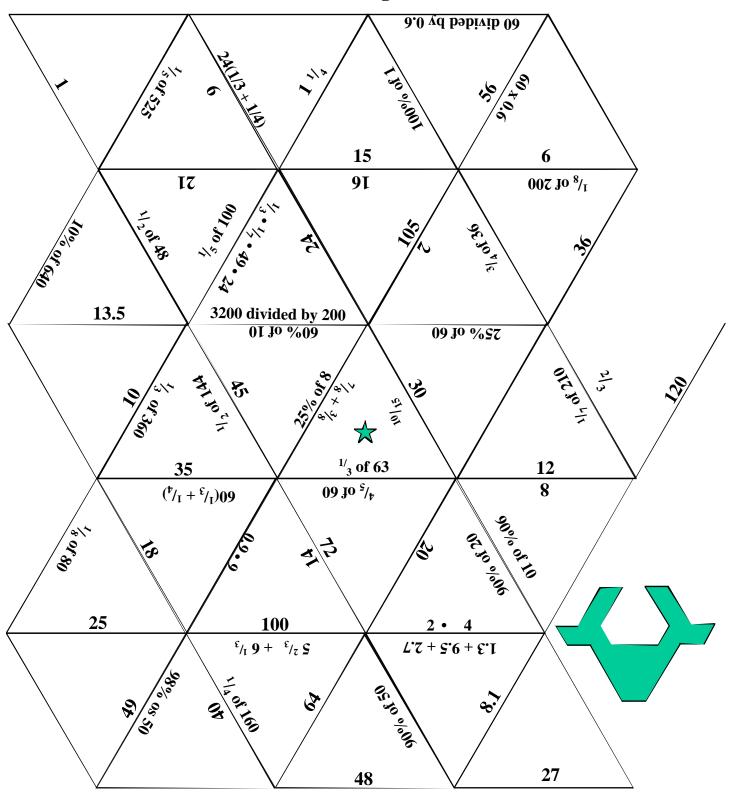
Classroom

Strategies

Blackline Masters

Integer Race 5 -5 **-3** 3 Move ahead Finish Move ahead 2 spaces 2 spaces

Rational Review Triangle Puzzle

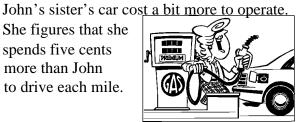


Problem 1

John has an economy car. John figures that it costs him \$30 to make a trip of 120 miles.

Problem 1

She figures that she spends five cents more than John to drive each mile.



Problem 1

How many miles can the sister travel for a cost of \$18.00?

Problem 2

The 7th grade class needs to raise \$85,00 per person to pay for a class trip.

Problem 2

The class decides to sell boxes of candy. Each box of candy sold will bring a profit of \$1.50 to the class.



Problem 2

If 90 people want to go; on the trip, how many boxes of candy must be sold?



Problem 3

Central Middle School has a special car that the mascot drives at games, pep rallies, and parades. The car can drive the length of the football field (100 yards) in four minutes.

Problem 3

The school is thinking of using the mascot car in a parade down Main St.

Main St. is 1.5 miles long.



Problem 3

How long will it take the mascot car to drive the length of main street (5280 feet per mile)



Problem 4

A city aquarium has \$48,000 budgeted for animal food.

Problem 4

The aquarium is going to soon get additional animals which will increase the cost of food to \$15 per hour.



How many weeks will this budget last?



Problem 5

Amy figures that it costs her 30 cents per cookie to make her favorite recipe.



Problem 5

Each cookie weighs about 1 oz. She wants to ship four dozen cookies to her brother.



Problem 5

The shipping rate is 75 cents per pound.



Problem 5

How much will it cost her to make and ship the cookies?



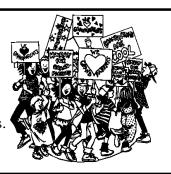
Problem 6

On a certain school spirit day, Mrs. Thomas notices that 2 of her 35 students are wearing school colors.



Problem 6

The school has 340 8th graders, 310 7th graders and 350 6th graders.



Problem 6

If you use Mrs. Thomas' class to get an estimate, what is a good guess for the total number of students wearing school colors?



Problem 7

A rectangular garden is 30 feet long and 24 feet wide.



Problem 7

The gardener has used 120 bricks to make a border along the longest edge of the rectangle.



Problem 7

How many bricks will be needed for the entire perimeter?



Problem 8

A huge poster of Arnold Schwarzeneggar is in front of the local movie theatre.



Problem 8

The poster shows the distance between Arnie's eyes to be 13 inches. The true distance between his eyes is 2.6 inches.



Problem 8

If Arnie is 6 feet tall, how tall is his picture on the poster?



Problem 9

Mark is going to make a graph comparing the age of a tortoise to its speed.



Problem 9

The oldest tortoise is 240 years old and travels only 1 foot per minute.

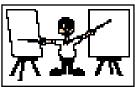
Problem 9

The fastest tortoise is only 5 years old but travels 10 feet per minute.



Problem 9

Mark is using a graph grid with 20 spaces in both the horizontal and vertical direction. What scales should he use on both axes?



Problem 10

The school nurse has read that 40% of all students miss school due to cold or flu during a school year.



Problem 10

In her school there are 350 6th graders, 300 7th graders, and 375 8th graders.

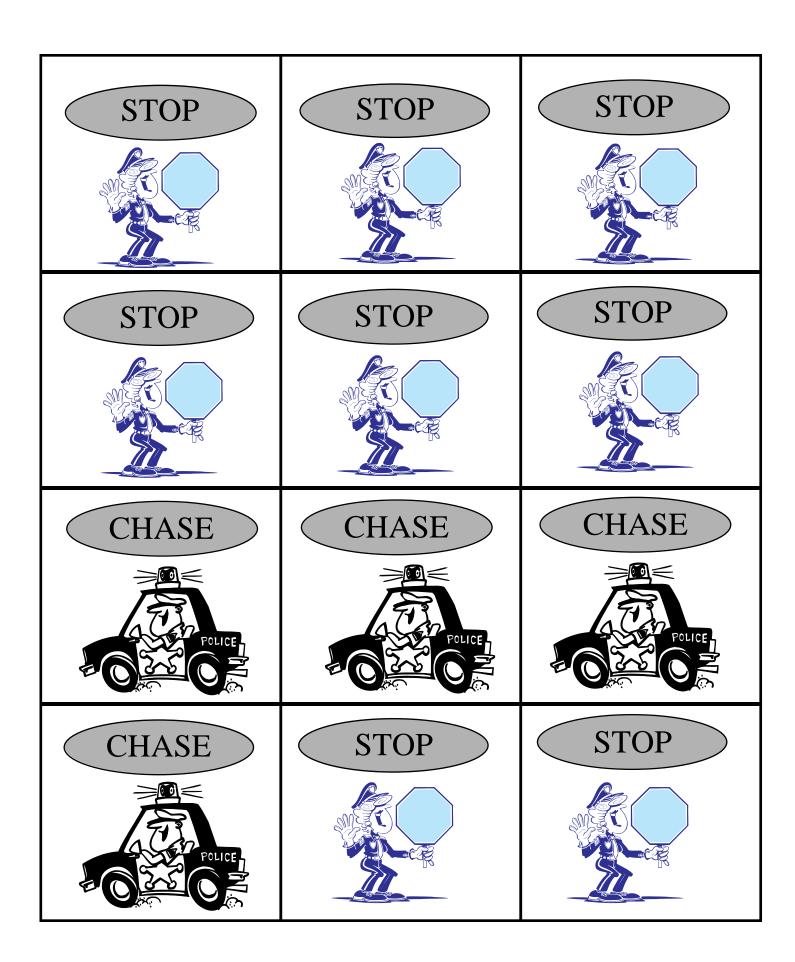


Problem 10

What is the best estimate for the number of students who will miss at least one day of school due to cold or flu?



Thousand Mile Race Cards in Play Team 3 Team 1 Team 2 Score Hazards or Stockpiled Cards

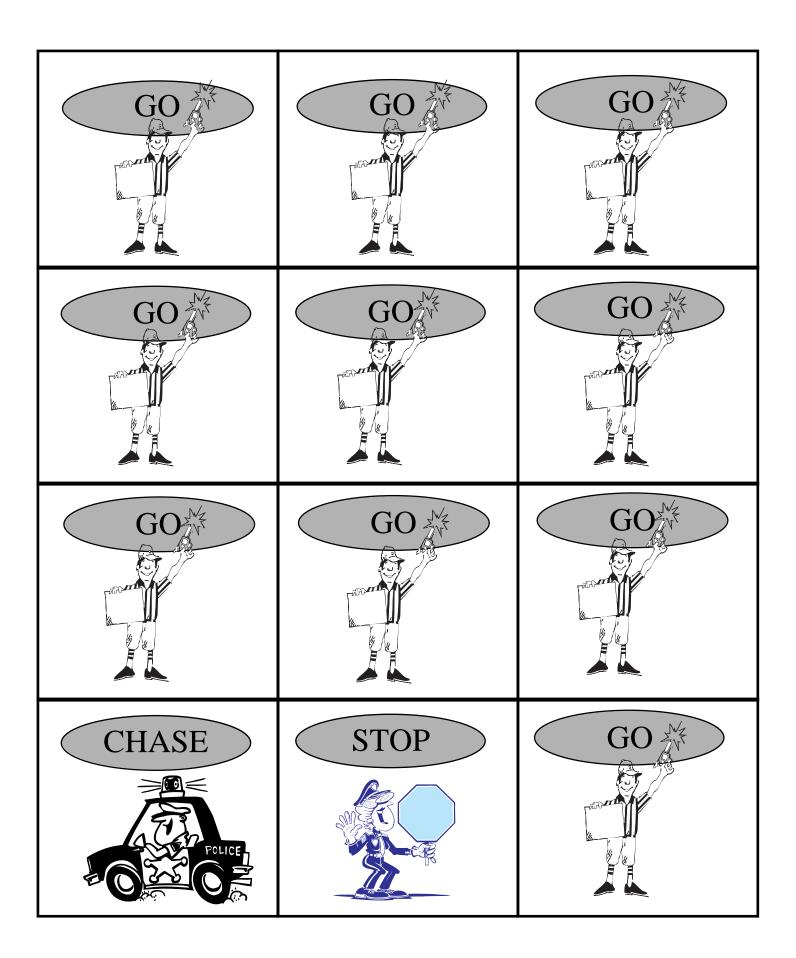


50 10% of 120	50% of 200	25% of 8
50 20% of 100	50 10% of 1300	50% of 650
25% of 160	50 20% of 600	50 10% of 450
50	50	50

100 50% of 810	100 10% of 37	100 20% of 455
25% of 8004	100 150% of 20	100 90% of \$4.50
100	100	100
33 1/3% of 120	75% of 60	80% of 250

150 10% of 75	20% of 800	150 50% of 6.008
25% of 32	150 110% of 80	150 80% of 350
150% of 62¢	150 75% of 840	150 110% of \$1.20
150 80% of \$3.00	150% of \$5.00	90% of \$3.40

200 20% of ³ / ₄	200 25% of \$1.08	200 50% of ² / ₃
200	200	200
10% of \$9.60	66 ² / ₃ % of 330	75% of 820
200	200	200
200 80% of 300	200 75% of 480	200 150% of \$2.40



Four's A Winner!

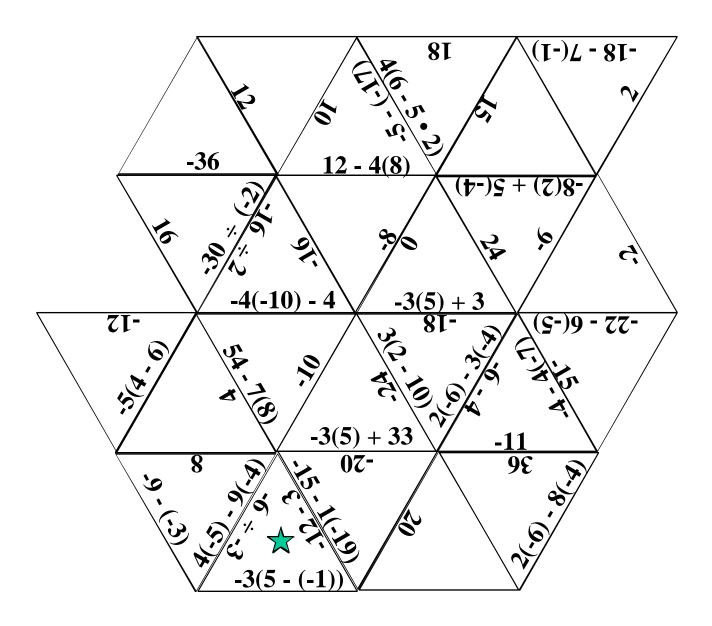
320	400	10	250	50	225
90	20	270	100	150	15
150	120	80	30	240	75
180	60	25	200	5	125
40	100	50	135	90	45
75	10	360	20	60	300

- ,	% of % of	_	_ , ,	increa			decreas increa	
20	40	60	80	100	120	160	180	200

Integer Computation Square Puzzle

-8	.11	-4(5) + 9	91 2 + 38 + 2	-19 -4
	-15	-7 + (-5)(-2)	-2(-3) - 13	-1(40 - 38)
9	.17 -3(-2 + 7)	(6-)+ - (9)9-	0 7 .2(2) + 5(-2)	اں ت -14
	7(-14+16)	$(-8 - 2) \div 2$	10 - 20 + 28	2(2 - 10)
-18	-8(-3) ÷ (-2)	-12 -13	-5(8) ÷ (-4) -4(-3 + 8)	91- S = ==================================
-6	9+5- 15+6-	$\begin{array}{c} -\frac{1}{2} & 0 + (+-)6 - \frac{1}{2} \\ -\frac{1}{2} & -\frac{1}{2} \\ -\frac{1}{2} & -\frac{1}{2} \end{array}$	-4 -4(-12 + 10)	∞ & &

Integer Computation Triangle Puzzle





Rational Math Bingo

B -30 to -19	I -18 to -7	N -6 to 5	G 6 to 17	0 18 to 29
		Free		

Fill in the card above with integers of your choice from –30 to 29. Choose numbers for each column as indicated on the card. For example, under B, choose numbers from -30 to -19. The numbers in each column may be in any order as long as they are from the indicated number range and not repeated.

-42 + 12	-49 + 20	$\frac{4}{3}$ x -21
9.00 x -3.0	2600 ÷ (-100)	$-1 \times (-5)^2$
6 (-10+6)	-4 x 5 - 3	-2 - 4 x 5
3 x (-7)	$\frac{2 \times 10^5}{-10^4}$	$-14 - \frac{15}{3}$
$-\frac{2}{3} \times 27$	-0.017 x 1000	-(2) ⁴

1/2 - 13/26	$\frac{1}{2} + \frac{7}{14}$	16 - 2(7)
$-1 \div -\frac{1}{3}$	-8 + (-2)(-6)	1.25 ÷ .25
$\frac{14}{5} \times \frac{15}{7}$	$1 + 2^2 + 2$	2^3
<u>20 + 7</u> 3	$\frac{10^5}{10^4}$	99 ÷ 9
Inches in one foot	39 ÷ 3	$7\frac{3}{4} + 6\frac{1}{4}$

- <u>1</u> x 60	-8 -6	-2 ³ -5
-6 ÷ 0.5	1 + 3(-4)	$-(4)^2+6$
-1(4-7) ²	$(-1 - 3) \div \frac{1}{2}$	3 - 2 x 5
-18 + 12	$\frac{5 \times 10^3}{-10^3}$	$-(2^2 \times 1^2)$
$-\frac{1}{3} \times 3^2$	-248 ÷124	$-(3/_4 + 1/_4)$

27.17-12.17	24	-34 ÷ (-2)
$-6 \div -\frac{1}{3}$	-1 + (-5)(-4)	5 ÷ .25
$\frac{14}{5} \times \frac{15}{2}$	7 + 5(3)	$-2 + 5^2$
$2^4 + 2^3$	$\frac{5^5}{5^3}$	(1+1)(6+7)
34 3	-7 x (-4)	$23\frac{3}{8} + 5\frac{5}{8}$