NAME: _____ DATE: _____

What have eyes, but cannot see?

DIRECTIONS Circle the correct answer in the problems below. Then record the corresponding letter of the answer you circled in the rectangles at the bottom to answer the riddle.
Note: The problem numbers match the numbered rectangles.

Estimate the percent represented by the shaded portion for problems 1 and 2:

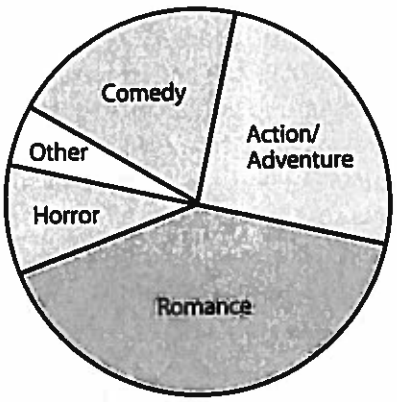
①

(A) 50% (C) 70% (H) 90%

②

(B) 1% (S) 90% (R) 10%

The pie chart below graphically represents the data from a poll asking about favorite kinds of movies. Use the pie chart for problems 3–8:



③ Approximately what percent of people prefer romance movies?

(D) 25% (E) 40% (I) 60%

④ Approximately what percent of people prefer horror movies?

(S) 25% (U) 10% (V) 35%

⑤ Approximately what percent of people prefer action/adventure movies?

(J) 15% (G) 75% (A) 25%

⑥ Approximately what percent of people prefer other movies than those listed?

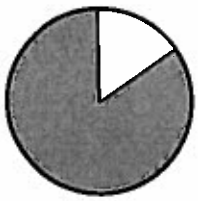
(I) 5% (L) 95% (M) 20%

⑦ Approximately what percent more people prefer action/adventure than horror?

(S) 15% (O) 25% (N) 70%

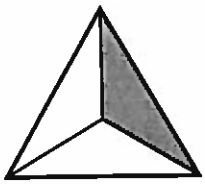
⑧ Approximately what percent of people prefe. either action/adventure or romance movies?

(P) 80% (N) 65% (V) 25%

⑨ 

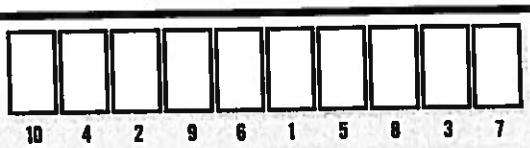
Approximately what percent of the circle is shaded in?

(S) 20% (P) 60% (R) 80%

⑩ 

Approximately what percent of the triangle is shaded in?

(T) 67% (H) 33% (E) 50%



Skill: Representing percentages graphically

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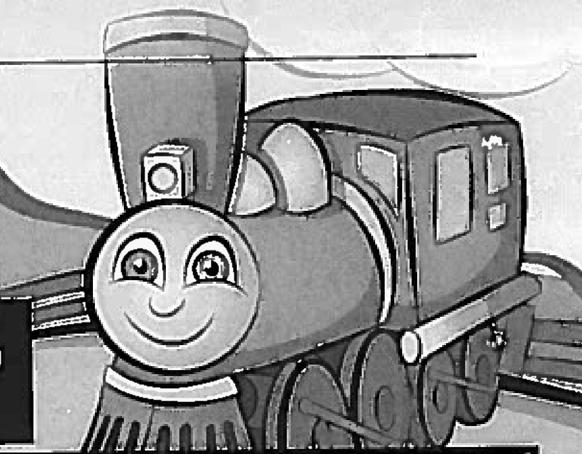
NAME: ______________________ DATE: ______________

Why did Susie think the train was sneezing?



DIRECTIONS

Solve the following problems and match your answers to the answers in the respective **Legends A, B, and C**. Then record the corresponding letter in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.

Use Legend A for problems 1–7. Convert the following into percents:

(1) 0.35 ________ (2) 0.08 ________ (3) 0.72 ________

(4) 0.2 ________ (5) 0.055 ________ (6) 0.9 ________

(7) 0.02 ________

Legend A

I 5.5%	R 55%
A 72%	H 20%
S 2%	N 35%
B 9%	E 80%
O 8%	
A 90%	

Use Legend B for problems 8–14. Convert the following into percents:

(8) $\frac{1}{5}$ ________ (9) $\frac{3}{10}$ ________ (10) $\frac{3}{4}$ ________

(11) $\frac{3}{25}$ ________ (12) $\frac{7}{20}$ ________ (13) $\frac{4}{5}$ ________

(14) $\frac{11}{100}$ ________

Legend B

H 11%	R 25%
O 30%	C 75%
D 65%	B 40%
A 80%	O 35%
T 12%	
I 20%	

Use Legend C for problems 15–21. Convert the following into fractions in simplest form:

(15) 28% ________ (16) 45% ________ (17) 10% ________

(18) 60% ________ (19) 70% ________ (20) 55% ________

(21) 6% ________

Legend C

S $\frac{7}{25}$	Y $\frac{3}{50}$
C $\frac{11}{20}$	W $\frac{1}{10}$
V $\frac{3}{25}$	E $\frac{9}{25}$
O $\frac{3}{5}$	G $\frac{7}{10}$
H $\frac{9}{20}$	

☐☐ ☐☐☐ ☐☐☐☐☐☐, "☐☐-☐☐☐☐☐☐☐☐!"

5 11   17 3 15   7 13 21 8 1 19   6 16   10 14 2 18 20 4 12 9

Skill: Converting between fractions, decimals, and percents

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NAME _____

PERCENTS

Dear Boys and Girls,

Riding in a dugout canoe is a treat for me, but it's the chief means of transportation in Suriname. While visiting Suriname's capital, I got to help farmers plant rice! Do you know where I'm visiting?

Professor Ben Around

To find out, multiply. Circle the letter below each answer. The circled letters spell the answer. Write the letters in the blanks below.

1. 25% of 40 =

1.0	10	1.6
C	P	N

2. 16% of 25 =

1.56	.4	4
O	R	A

3. 60% of 50 =

30	.83	8.3
R	E	S

4. 20% of 18 =

9.0	.9	3.6
N	P	A

5. 30% of 45 =

13.5	1.5	15
M	G	U

6. 75% of 200 =

26	150	175
O	A	B

7. 15% of 125 =

8.3	15	18.75
T	L	R

8. 40% of 50 =

20	1.25	40
I	E	V

9. 45% of 90 =

50	4.50	40.5
O	K	B

10. 5% of 25 =

1.25	12.5	.125
O	S	A

ANSWER: _ _ _ _ _ _ _ _ _ _

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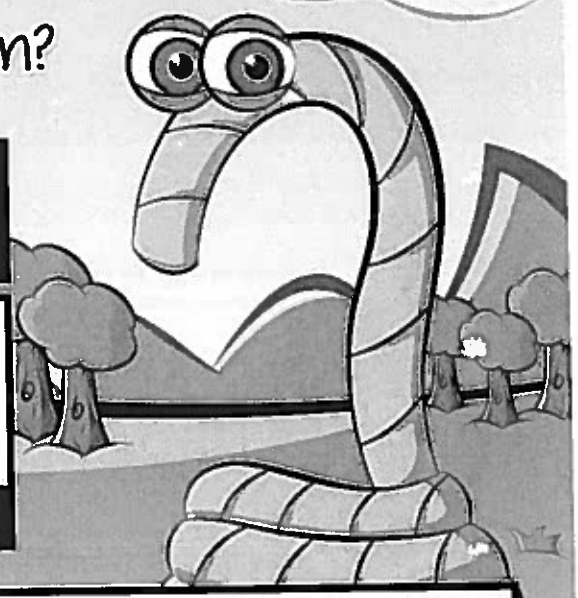
NAME: _____ DATE: _____

Why did the rope's mother scold him?



DIRECTIONS Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles at the bottom to answer the riddle.
Note: The problem numbers match the numbered rectangles.

C 22	T 210	E 134	D 34	A 40	Y 21
T 2	S 15	K 56	E 6	E 48	N 405
B 77	E 256	H 30	E 65	O 18	E 365
A 8	U 12	B 1	H 27	N 72	LEGEND

Solve the following problems by using the benchmark fractions in **Diagram A**:

1. 19% of 40 _____
2. 12% of 48 _____
3. 31% of 60 _____
4. 49% of 44 _____
5. 76% of 28 _____
6. 67% of 18 _____
7. 62% of 45 _____
8. 88% of 64 _____
9. 39% of 75 _____
10. 71% of 110 _____
11. 33% of 45 _____
12. 51% of 130 _____
13. 101% of 405 _____
14. 13% of 8 _____
15. 23% of 8 _____
16. 41% of 100 _____
17. 21% of 170 _____
18. 69% of 300 _____
19. 37% of 127 _____
20. 66% of 201 _____

Diagram A

Benchmark Fractions

$50\% = \frac{1}{2}$

$33\frac{1}{3}\% = \frac{1}{3}$

$25\% = \frac{1}{4}$

$20\% = \frac{1}{5}$

$12\frac{1}{2}\% = \frac{1}{8}$

$10\% = \frac{1}{10}$

21. 51% of a school's students report that they prefer the cafeteria's pizza to its chicken strips. If there are 512 students in the school, approximately how many prefer pizza?

22. 24% of an airline's 288-plane fleet need repairs. Approximately how many of the planes need repairs?

14	20	4	16	6	11	12	7	19	9	1	17	10	21	2	13	8	22	3	15	18	5		

Skill: Estimating percents using benchmark fractions

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