

Spring Break Math Review for NWEA

Ratios

27RQA58E3

1. Letters to numbers _____
2. Odd to even numbers _____
3. Vowels to letters _____

Find the Unit Rate

1. 720 kilometers per 15 liters _____
2. 2,736 yards in 8 seconds _____
3. \$5.85 for 9 rolls _____
4. 224 hits in 14 games _____
5. 288 markers in 12 boxes _____

Write a percent for each situation

1. 75 out 100 students _____
2. 3 out of 10 movies _____
3. 20 votes for Erin per 100 voters _____

Find the percent of each number

1. What is 30% of 80? _____
2. What is 50% of 30? _____
3. What is 20% of 600? _____
4. What is 90% of 500? _____

Convert each fraction to a decimal

1. $\frac{3}{4}$ _____
2. $\frac{1}{2}$ _____
3. $\frac{1}{4}$ _____

Convert decimals to percentage

1. .25 _____
2. .35 _____
3. .125 _____
4. .05 _____

Convert percent to a decimal

1. 25% _____
2. 135% _____
3. 6% _____
4. 30% _____

Ratio/Percent Word Problem

In a survey of 800 students, 70% said they liked pop music. How many students liked pop music?

Ratio/Percent Word Problem

Sunshay spent 60% of her birthday money at the mall. If she spent \$24 dollars at the mall, how much money did Sunshay receive for her birthday?

Find the opposite of each number

1. -2 _____
2. 15 _____
3. 43 _____
4. -38 _____

Write an integer to represent each situation

1. 30 feet below sea level _____
2. Gaining 6 points _____
3. A bank deposit of \$40 _____
4. A loss of 3 yards in a football game _____

Find the Absolute of each integer

1. $|7|$ _____
2. $|-4|$ _____
3. $|-10|$ _____
4. $|52|$ _____

Write each expression using an exponent

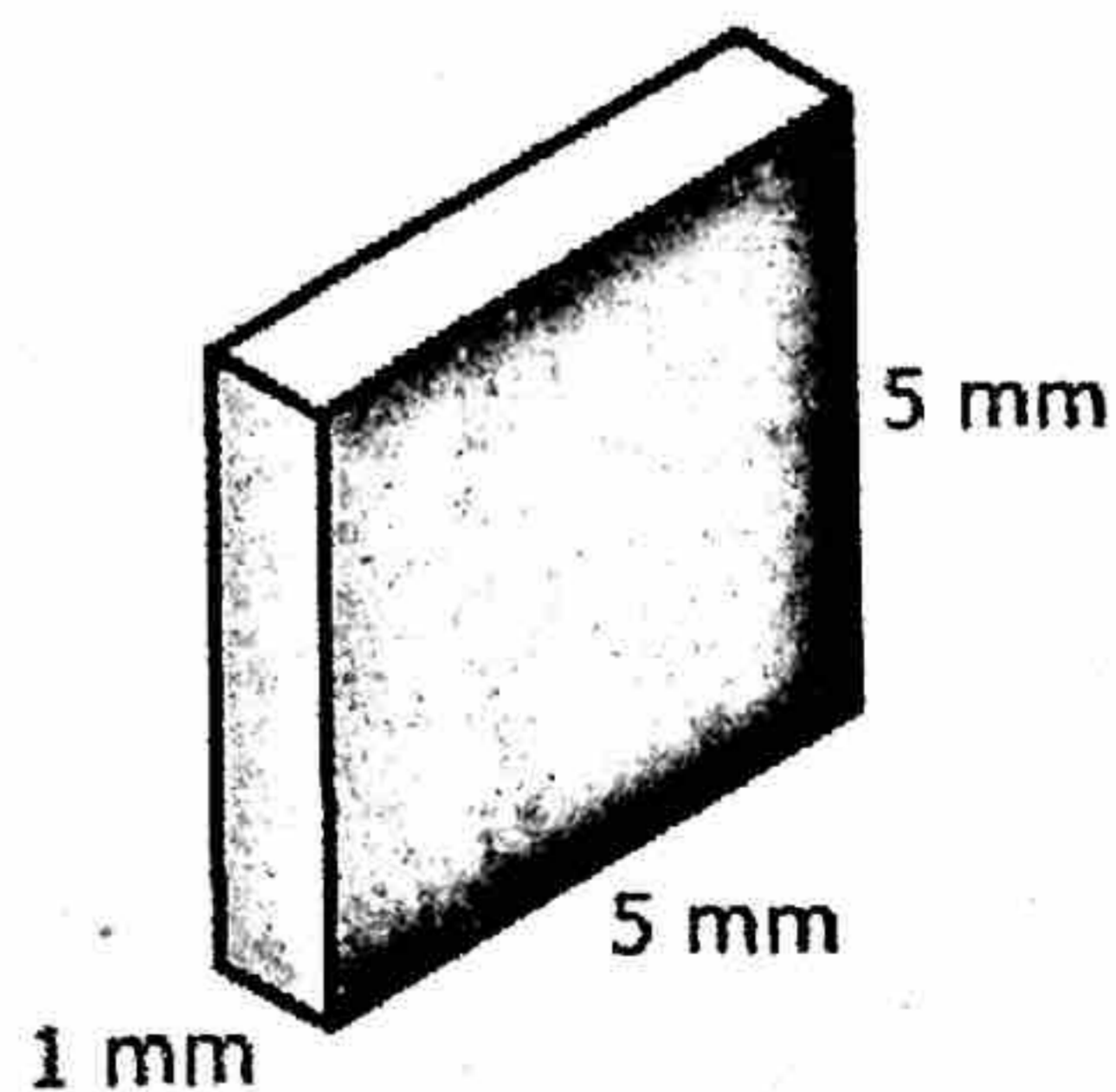
1. $5 \times 5 \times 5 \times 5$ _____
2. 7×7 _____
3. $4 \times 4 \times 4 \times 4 \times 4$ _____

Expand each expression and evaluate

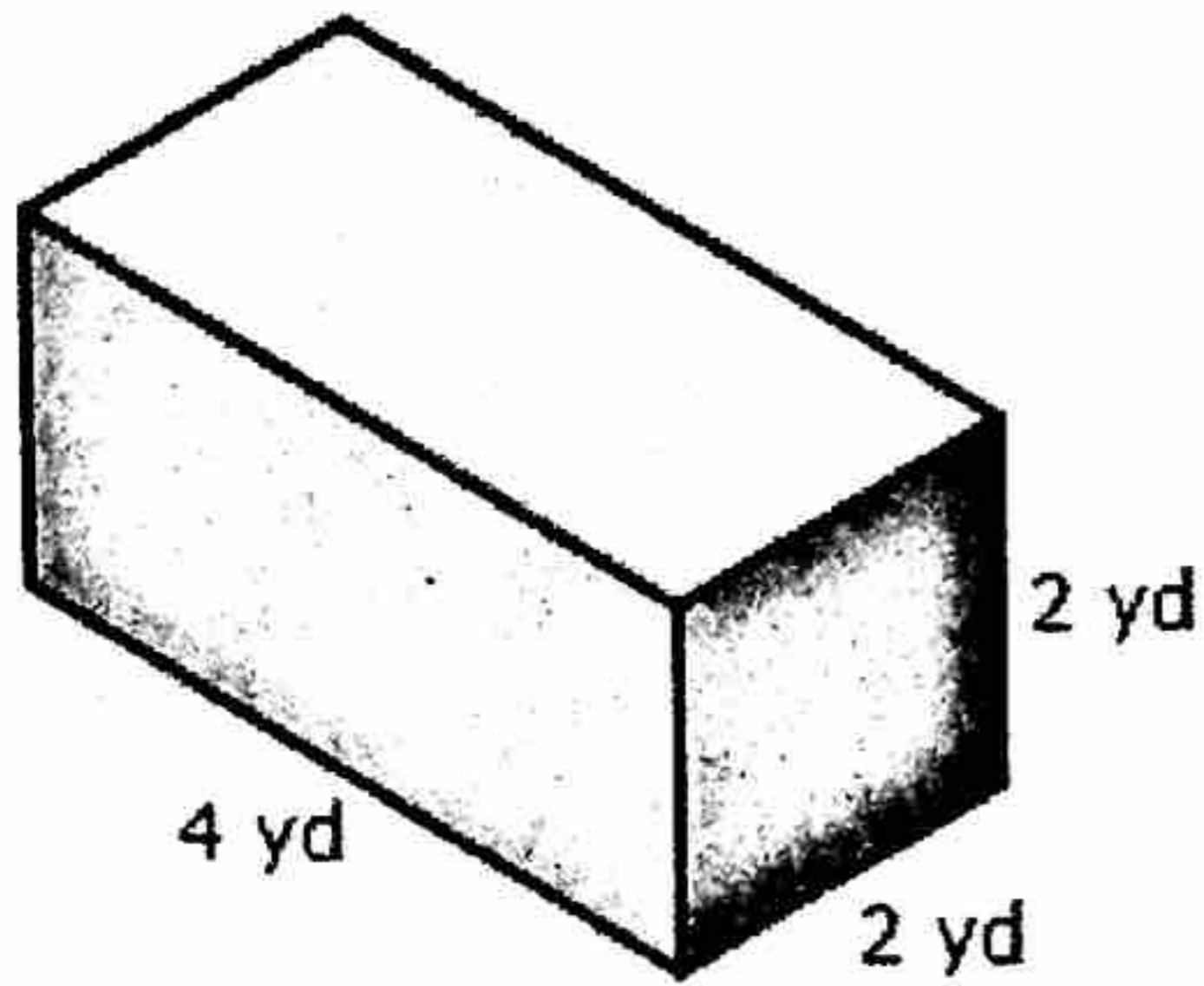
1. 6^3 _____
2. 3^5 _____
3. 8^3 _____

Evaluate each Expression (PEMDAS)

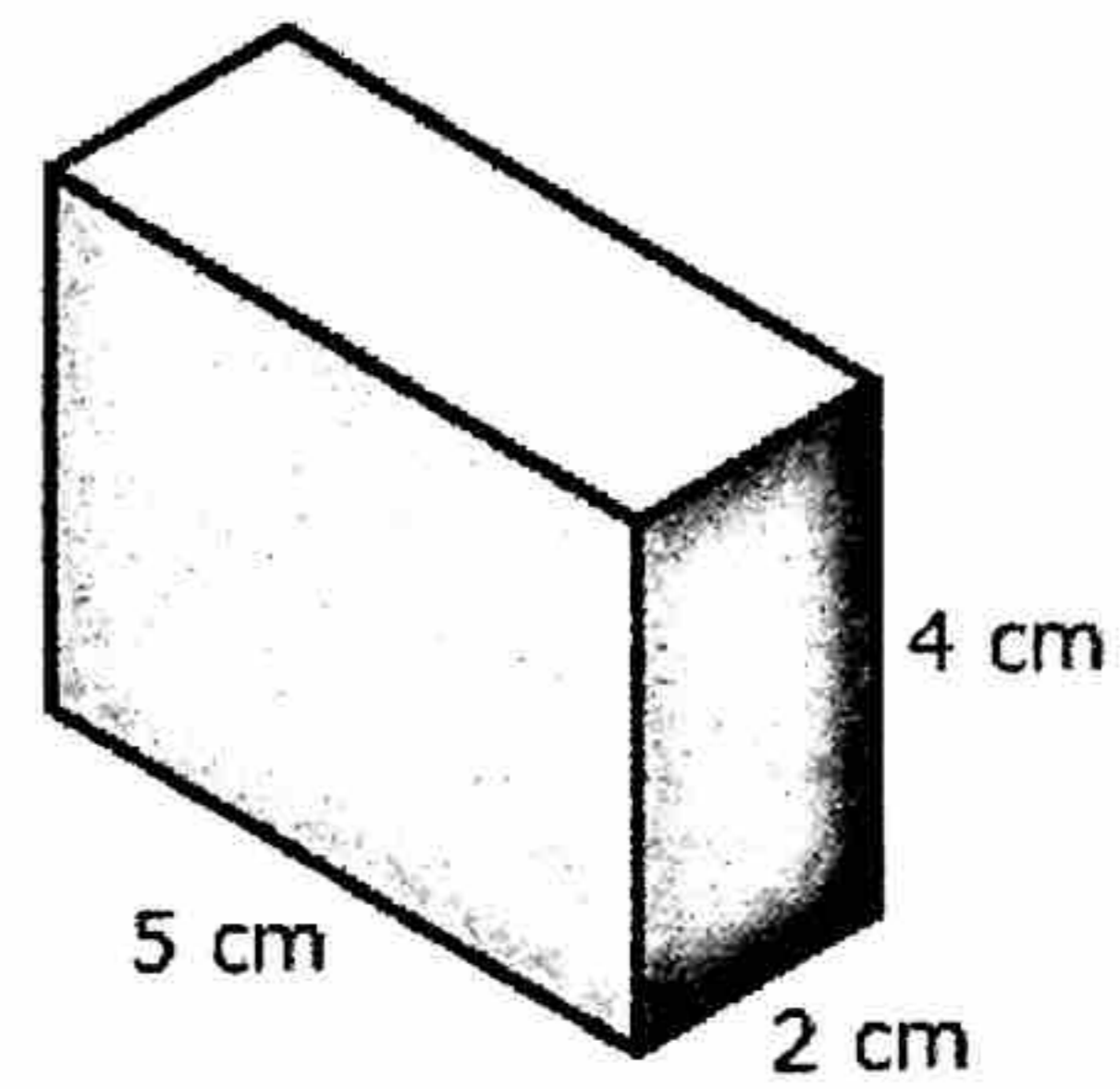
1. $4^2 + 5^2 =$ _____
2. $38 - 32 \div 4 + 2^4$ _____
3. $100 \div (4 + 1)$ _____

Find the Volume

Find the Volume



Find the Volume



Is $t = 6$ a solution to the inequality below?

$$T \leq 7$$

Yes or No

Is $m = 1$ a solution to the inequality below?

$$M \leq 7$$

Yes or No

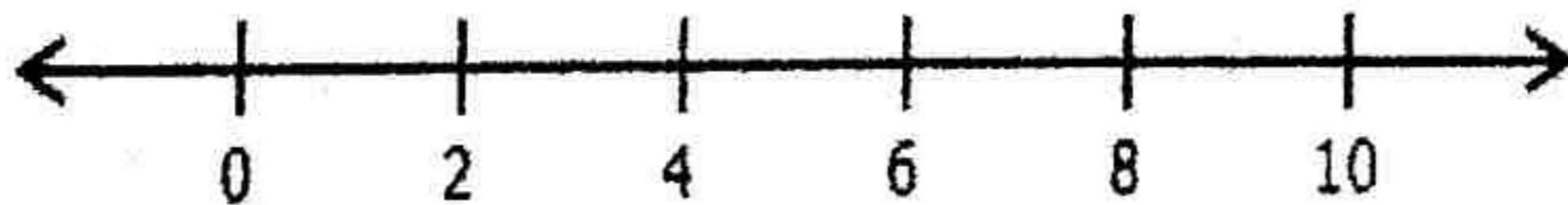
What inequality does this number line show?



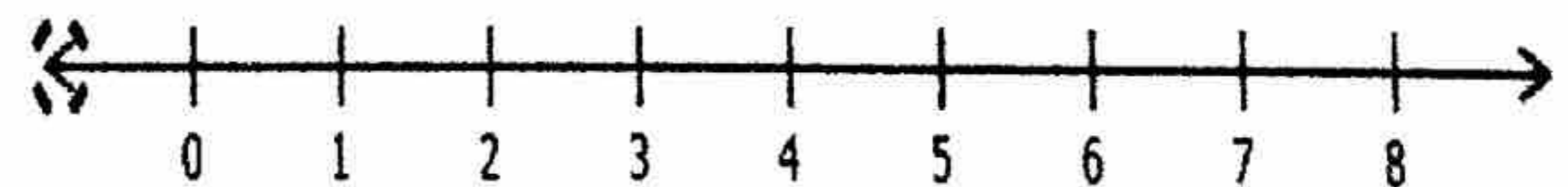
What inequality does this number line show?



Graph the inequality: $x \leq 0$



Graph the inequality: $x \geq 5$



Solve each inequality

1. $2w > 20$ _____

2. $m - 5 \geq 36$ _____

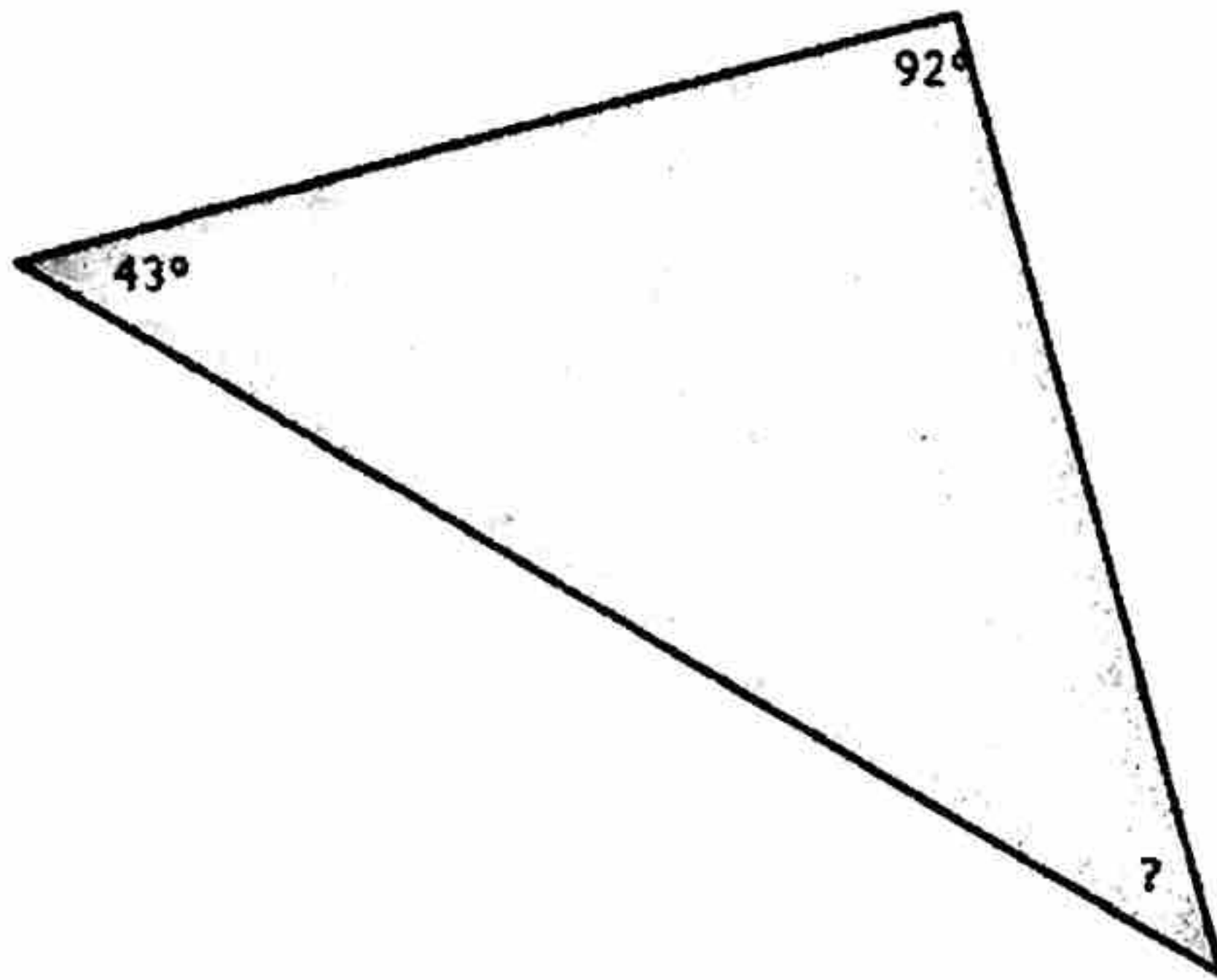
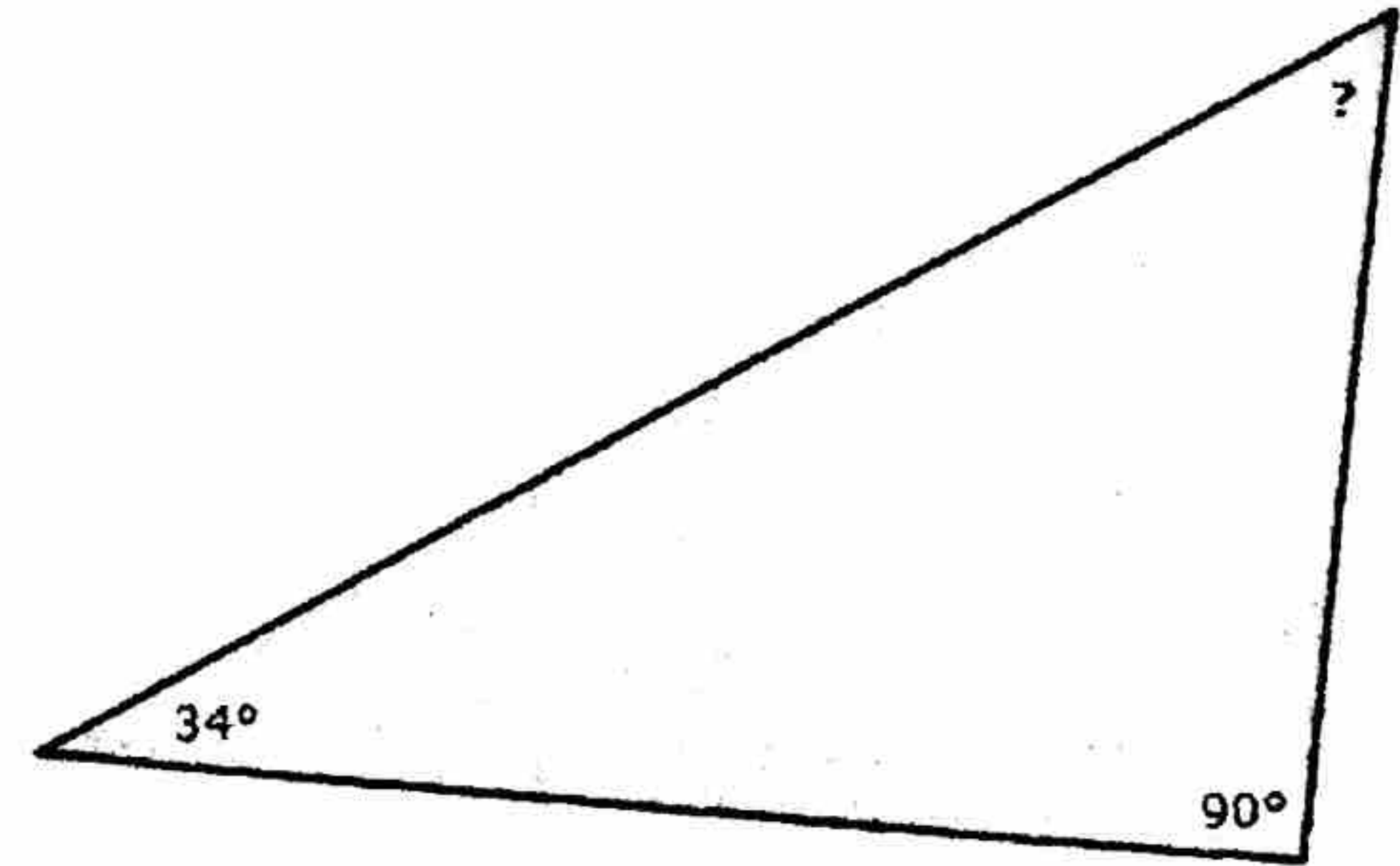
3. $x + 23 < 50$ _____

Solve each inequality

1. $9s \leq 108$ _____

2. $76 + c < 82$ _____

3. $b - 16 > 4$ _____

Find the missing angle to the triangle**Find the missing angle to the triangle****Solve each proportion**

1. $3 : 5 = x : 6$ _____

2. $1 : 4 = x : 20$ _____

3. $2 : 3 = 10 : x$ _____

4. $1 : 3 = x : 15$ _____

Solve using Proportions

Daniel took a total of 20 quizzes over the course of 5 weeks. After attending 8 weeks of school this quarter, how many quizzes will Daniel have taken in total? Assume the relationship is directly proportional.

Solve using Proportions

Lia jarred 18 liters of jam after 6 days. How much jam did Lia jar if she spent 10 days making jam? Assume the relationship is directly proportional.

Solve using Proportions

Nolan prepared 9 kilograms of dough after working 3 hours. How many hours did Nolan work if he prepared 18 kilograms of dough? Assume the relationship is directly proportional.

Please show work on a separate sheet of paper. You may use your notes and calculator to complete assignments. This is worth 100 points!!!