

Name: Class:

Compare Percentages

Which sign makes the expressions below true? complete with $<$, $>$, or $=$.

a. 70% of 100 30% of 100

b. 40% of 85 2% of 250

c. 15% of 20 48% of 50

d. 90% of 80 80% of 90

e. 45% of 100 55% of 100

f. 18% of 85 5% of 250

g. 25% of 20 50% of 50

h. 75% of 80 70% of 90

i. 5% of 200 10% of 1 000

j. 70% of 350 25% of 2 500

Name: Class:

Compare Percentages

Which sign makes the expressions below true? complete with $<$, $>$, or $=$.

a. 70% of 100 $>$ 30% of 100

Let's first of all solve the left hand side.
 $70\% \text{ of } 100 = \frac{70}{100} \times 100 = 70.$

Now, let's solve the right hand side.
 $30\% \text{ of } 100 = \frac{30}{100} \times 100 = 30.$

Finally, let's compare. Since 70 is greater than 30, it implies that 70% of 100 $>$ 30% of 100.

b. 40% of 85 $>$ 2% of 250

Let's first of all solve the left hand side.
 $40\% \text{ of } 85 = \frac{40}{100} \times 85 = 34.$

Now, let's solve the right hand side.
 $2\% \text{ of } 250 = \frac{2}{100} \times 250 = 5.$

Finally, let's compare. Since 34 is greater than 5, it implies that 40% of 85 $>$ 2% of 250.

c. 15% of 20 $<$ 48% of 50

Let's first of all solve the left hand side.
 $15\% \text{ of } 20 = \frac{15}{100} \times 20 = 3.$

Now, let's solve the right hand side.
 $48\% \text{ of } 50 = \frac{48}{100} \times 50 = 24$

Finally, let's compare. Since 3 is less than 24, it implies that 15% of 20 $<$ 48% of 50.

d. 90% of 80 $=$ 80% of 90

Let's first of all solve the left hand side.
 $90\% \text{ of } 80 = \frac{90}{100} \times 80 = 72$

Now, let's solve the right hand side.
 $80\% \text{ of } 90 = \frac{80}{100} \times 90 = 72$

Finally, let's compare. Since 72 is equal to 72, it implies that 90% of 80 $=$ 80% of 90.