5.NF Comparing a Number and a Product

Alignments to Content Standards

- Alignment: 5.NF.B.5

Tags

- *This task is not yet tagged.*

Decide which number is greater without multiplying.

a. 817 or 235×817

b. 99 or $\dfrac{1}{4} \times 99$

c. $\dfrac{51}{100}$ or $\dfrac{51}{100} \times 301$

d. $\dfrac{13}{90}$ or $\dfrac{2}{3} \times \dfrac{13}{90}$

e. $\dfrac{101}{102}$ or $\dfrac{101}{102} \times \dfrac{101}{102}$

f. $\dfrac{99}{5}$ or $\dfrac{99}{5} \times \dfrac{1}{2}$

g. $\dfrac{8}{21} \times 40$ or $\dfrac{28}{21} \times 40$

h. $\dfrac{8}{3} \times \dfrac{5}{7}$ or $\dfrac{8}{3} \times \dfrac{9}{4}$

Commentary

The purpose of this task is for students to compare a number and its product with other numbers that are greater than and less than one. As written, this task could be used in a summative assessment context, but it might be more useful in an instructional setting where students are asked to explain their answers either to a partner or in a whole class discussion.

Solutions

Solution: Answers

a. 235×817

b. 99

c. $\dfrac{51}{100} \times 301$

d. $\dfrac{13}{90}$

e. $\dfrac{101}{102}$

f. $\dfrac{99}{5}$

g. $\dfrac{28}{21} \times 40$

h. $\dfrac{8}{3} \times \dfrac{9}{4}$