

Lamm

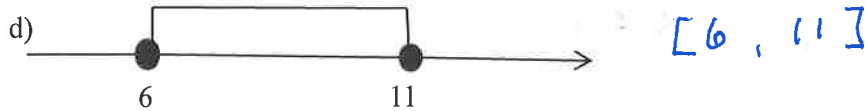
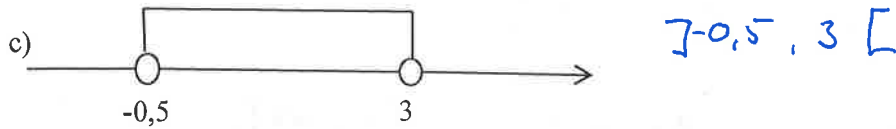
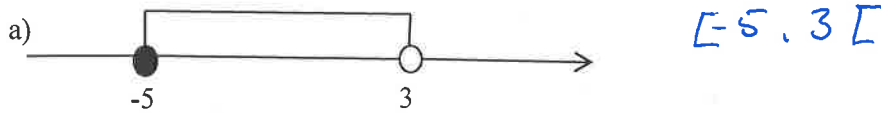
Nafn: _____

1. Hver er minnsta talnamengið sem eftirfarandi tölur geta tilheyrt?

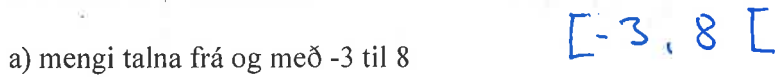
Ritaðu N, Z, Q eða R

- a) $\frac{1}{7}$
Q
- b) $\sqrt{144}$
N
- c) $\sqrt{\frac{1}{3}}$
R
- d) -3
Z

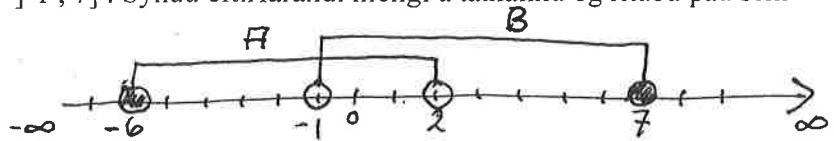
2. Ritaðu eftirfarandi talnabil með biltáknum:



3. Ritaðu með biltáknum:



4. Gefið er að $A = [-6, 2[$ og $B =]-1, 7]$. Sýndu eftirfarandi mengi á talnalínu og ritaðu þau sem bil eða sammengi bila:



a) $A \cap B \quad]-1, 2[$

b) $A \cup B \quad [-6, 7]$

c) $A \setminus B \quad [-6, -1]$

5. Leystu eftirfarandi ójöfnur og skilaðu svari með biltáknum:

a) $5x - 3 \geq 3x - 1$

$$5x - 3x \geq -1 + 3$$

$$2x \geq 2$$

$$\frac{2x}{2} \geq \frac{2}{2}$$

$$x \geq 1$$

$$[1, \infty[$$

b) $3(x - 2) \geq 2(2 + 2x)$

$$3x - 6 \geq 4 + 4x$$

$$3x - 4x \geq 4 + 6$$

$$-x \geq 10$$

$$\frac{-x}{-1} \leq \frac{10}{-1}$$

$$x \leq -10$$

$$]-\infty, -10]$$

c) $\frac{x}{3} > 5$

$$\frac{3 \cdot x}{3} > 3 \cdot 5$$

$$]15, \infty[$$

$$x > 15$$

Skiladagur: Föstudagur 1. september.