Number system

Exercises:

- 1. Write in order, the smallest first: 20, 19.5, $19\frac{3}{4}$
- 2. Which is larger: $\frac{13}{16}$ or $\frac{21}{26}$
- 3. Simplify the following by rationalising their denominators.

a)
$$\frac{3}{\sqrt{2}}$$
 b) $\frac{3}{7\sqrt{2}}$ c) $\frac{1}{\sqrt{2}}$ d) $\frac{9\sqrt{2}}{2\sqrt{3}}$

d)
$$\frac{9 + \sqrt{2}}{3 + 2\sqrt{2}}$$

4. Write down the first five terms of the sequence whose nth terms are:

a)
$$4n - 1$$
 b) $2n^2$

5. If
$$\frac{2a-b}{2a+b} = \frac{1}{2}$$
 calculate the value of $\frac{a}{b}$

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Number system

Answers

Exercises:

- 1. Write in order, the smallest first: 20, 19.5, $19\frac{3}{4}$
- $(\frac{13}{16})$ or $\frac{21}{26}$ 2. Which is larger:
- 3. Simplify the following by rationalising their denominators.

a)
$$\frac{3\sqrt{2}}{2}$$
 b) $\frac{2\sqrt{2}}{7}$ c) $\frac{\sqrt{2}}{2}$ d) $\frac{3\sqrt{6}}{2}$

4. Write down the first five terms of the sequence whose nth terms are:

5. If
$$\frac{2a-b}{2a+b} = \frac{1}{2}$$
 calculate the value of $\frac{a}{b}$

$$1\frac{1}{2}$$