

A2.A.23: Solving Rationals 3: Solve rational equations and inequalities

- 1 When 5 is divided by a number, the result is 3 more than 7 divided by twice the number. What is the number?
 - 1) 1
 - 2) 2
 - 3) $\frac{1}{2}$
 - 4) 5

- 2 If the sum of a number n and ten times its reciprocal is 7, then a value of n may be
 - 1) $\frac{1}{2}$
 - 2) 2
 - 3) 3
 - 4) 4

- 3 Find the number that is $\frac{7}{12}$ less than its reciprocal.

- 4 Find the number that must be added to each term of the fraction $\frac{17}{23}$, that the resulting fraction shall equal $\frac{4}{5}$.

- 5 An excursion party had \$2.00 to pay, but before the bill was paid 10 of the party went away, and those that remained had each to pay 10 cents more. Find how many were in the party at first.

- 6 A certain company agreed to build a vessel for \$6,300. But, two of their number having died, the rest had each to advance \$200 more than they otherwise would have done. Of how many persons did the company consist at first?

A2.A.23: Solving Rationals 3: Solve rational equations and inequalities**Answer Section**

1 ANS: 3 PTS: 2 REF: 010927a

2 ANS: 2 PTS: 2 REF: 018428a

3 ANS:

$$\frac{3}{4}$$

PTS: 13 REF: 060506al

4 ANS:

$$7$$

PTS: 13 REF: 030503al

5 ANS:

$$20$$

PTS: 3 REF: 019015al

6 ANS:

$$9$$

PTS: 3 REF: 039016al