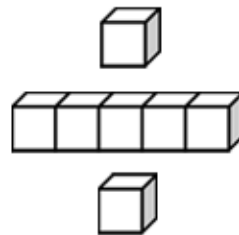


# 基本學習內容：RC-6-1-2

理解可以透過顛倒相乘  
將除法改用乘法來計算

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## 基本學習內容：RC-6-1-2

◎認識有除法計算時，可透過顛倒相乘改用乘法來計算

(1)算算看： $\frac{3}{5} \div \frac{7}{4} = ( \quad )$

$$\frac{3}{5} \div \frac{7}{4} = \frac{3}{5} \times \frac{4}{7} = \frac{12}{35}$$

答： $\frac{12}{35}$

(2)算算看： $\frac{7}{9} \div 3 = ( \quad )$

$$\frac{7}{9} \div 3 = \frac{7}{9} \div \frac{3}{1} = \frac{7}{9} \times \frac{1}{3} = \frac{7}{27}$$

答： $\frac{7}{27}$

(3)算算看： $8 \div \frac{2}{3} = ( \quad )$

$$8 \div \frac{2}{3} = \frac{8}{1} \div \frac{2}{3} = \frac{8^4}{1} \times \frac{3}{2_1} = 12$$

答：12

(4)算算看： $23 \div 19 = ( \quad )$

$$23 \div 19 = \frac{23}{1} \div \frac{19}{1} = \frac{23}{1} \times \frac{1}{19} = \frac{23}{19}$$

答： $\frac{23}{19}$

做除法計算時，可透過顛倒相乘改用乘法來計算。





(5)算算看：  $7.2 \div 3.3 = ( \quad )$

$$7.2 \div 3.3 = \frac{72}{10} \div \frac{33}{10} = \frac{\overset{24}{\cancel{72}}}{\underset{1}{\cancel{10}}} \times \frac{\overset{10}{\cancel{10}}}{\underset{11}{\cancel{33}}} = \frac{72}{10} \times \frac{10}{33} = \frac{24}{11}$$

答：  $\frac{24}{11}$

(6)算算看：  $5.4 \div \frac{9}{4} = ( \quad )$

$$5.4 \div \frac{9}{4} = \frac{54}{10} \div \frac{9}{4} = \frac{54}{10} \times \frac{4}{9} = \frac{\overset{6}{\cancel{54}}}{\underset{5}{\cancel{10}}} \times \frac{\overset{4}{\cancel{4}}}{\underset{1}{\cancel{9}}} = \frac{12}{5}$$

答：  $\frac{12}{5}$

(7)算算看：  $\frac{7}{8} \div 14.7 = ( \quad )$

$$\frac{7}{8} \div 14.7 = \frac{7}{8} \div \frac{147}{10} = \frac{7}{8} \times \frac{10}{147} = \frac{\overset{1}{\cancel{7}}}{\underset{4}{\cancel{8}}} \times \frac{\overset{10}{\cancel{10}}}{\underset{21}{\cancel{147}}} = \frac{5}{84}$$

答：  $\frac{5}{84}$

當被除數或除數是小數時，可先將小數換成分數，再透過顛倒相乘改用乘法來計算。





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(8)算算看： $\frac{8}{9} \times \frac{25}{16} \div \frac{5}{12} = ( \quad )$

$$\frac{8}{9} \times \frac{25}{16} \div \frac{5}{12} = \frac{\overset{1}{\cancel{8}}}{\underset{3}{\cancel{9}}} \times \frac{\overset{5}{\cancel{25}}}{\underset{1}{\cancel{16}}} \times \frac{\overset{2}{\cancel{12}}}{\underset{1}{\cancel{5}}} = \frac{10}{3}$$

答： $\frac{10}{3}$

(9)算算看： $\frac{27}{5} \div \frac{9}{4} \div \frac{8}{15} = ( \quad )$

$$\frac{27}{5} \div \frac{9}{4} \div \frac{8}{15} = \frac{\overset{3}{\cancel{27}}}{\underset{1}{\cancel{5}}} \times \frac{\overset{1}{\cancel{4}}}{\underset{1}{\cancel{9}}} \times \frac{\overset{3}{\cancel{15}}}{\underset{2}{\cancel{8}}} = \frac{9}{2}$$

答： $\frac{9}{2}$

(10)算算看： $132 \div \frac{11}{5} \times \frac{22}{5} = ( \quad )$

方法一

方法二

$$132 \div \frac{11}{5} \times \frac{22}{5} = \frac{132}{1} \times \frac{\overset{1}{\cancel{5}}}{\underset{1}{\cancel{11}}} \times \frac{\overset{2}{\cancel{22}}}{\underset{1}{\cancel{5}}} = 264$$

$$132 \div \frac{11}{5} \times \frac{22}{5} = 132 \times \frac{\overset{1}{\cancel{5}}}{\underset{1}{\cancel{11}}} \times \frac{\overset{2}{\cancel{22}}}{\underset{1}{\cancel{5}}} = 264$$

答：264

(11)算算看： $126 \div 7 \div \frac{3}{2} = ( \quad )$

方法一

方法二

$$126 \div 7 \div \frac{3}{2} = \frac{\overset{18}{\cancel{126}}}{1} \times \frac{1}{\underset{1}{\cancel{7}}} \times \frac{2}{\underset{1}{\cancel{3}}} = 12$$

$$126 \div 7 \div \frac{3}{2} = \frac{\overset{18}{\cancel{126}}}{1} \times \frac{1}{\underset{1}{\cancel{7}}} \times \frac{2}{\underset{1}{\cancel{3}}} = 12$$

答：12



(12)算算看： $72 \times 11 \div 9 = ( \quad )$

方法一

$$72 \times 11 \div 9 = \frac{72}{1} \times \frac{11}{1} \div \frac{9}{1} = \frac{\overset{8}{\cancel{72}}}{1} \times \frac{11}{1} \times \frac{1}{\underset{1}{\cancel{9}}} = 88$$

方法二

$$72 \times 11 \div 9 = 72 \times 11 \div \frac{9}{1} = \overset{8}{\cancel{72}} \times 11 \times \frac{1}{\underset{1}{\cancel{9}}} = 88$$

答：88

當算式當中有除號時，可先換成分數，再透過顛倒相乘改用乘法來計算。



小試身手

(1)  $\frac{7}{8} \div \frac{14}{3} = ( \quad )$

(2)  $\frac{9}{4} \div 6 = ( \quad )$

(3)  $12 \div \frac{6}{5} = ( \quad )$

(4)  $13 \div 25 = ( \quad )$

(5)  $3.75 \div \frac{9}{5} = ( \quad )$

(6)  $\frac{7}{5} \div 2.1 = ( \quad )$

(7)  $63 \div \frac{21}{5} \times \frac{8}{3} = ( \quad )$

(8)  $\frac{20}{9} \div 15 \div \frac{6}{11} = ( \quad )$



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