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$$(1) 56 \times 66 \div 42 \times \frac{1}{22}$$

$$(2) \frac{1}{3} + \frac{1}{15} + \frac{1}{35} + \frac{1}{63}$$

$$(3) 5\frac{1}{3} \div 3\frac{5}{9} - \square \div \left( 2\frac{1}{4} \div 2\frac{2}{5} \right) = \frac{13}{30}$$

※解説は次ページ

2以降は次回掲載します。

第9回解説その1

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$$\begin{aligned}
 (1) \quad & 56 \times 66 \div 42 \times \frac{1}{22} \\
 &= \frac{56}{1} \times \frac{66}{1} \times \frac{1}{42} \times \frac{1}{22} \\
 &= \frac{56 \times 66}{42 \times 22} \\
 &= 4 \quad \boxed{4}
 \end{aligned}$$

覚えるよりしょうがないです!

$$\begin{aligned}
 (2) \quad & \frac{1}{3} + \frac{1}{15} + \frac{1}{35} + \frac{1}{63} \\
 &= \frac{1}{1 \times 3} + \frac{1}{3 \times 5} + \frac{1}{5 \times 7} + \frac{1}{7 \times 9} \\
 &= \left( \frac{1}{1} - \frac{1}{3} \right) \times \frac{1}{2} + \left( \frac{1}{3} - \frac{1}{5} \right) \times \frac{1}{2} + \dots + \left( \frac{1}{7} - \frac{1}{9} \right) \times \frac{1}{2} \\
 &= \left( \frac{1}{1} - \cancel{\frac{1}{3}} + \cancel{\frac{1}{3}} - \cancel{\frac{1}{5}} + \dots + \cancel{\frac{1}{7}} - \frac{1}{9} \right) \times \frac{1}{2} \\
 &= \left( \frac{1}{1} - \frac{1}{9} \right) \times \frac{1}{2} \\
 &= \frac{8}{9} \times \frac{1}{2} \\
 &= \frac{4}{9} \quad \boxed{\frac{4}{9}}
 \end{aligned}$$

(3)

$$5 \frac{1}{3} \div 3 \frac{5}{9} - \square \div \left( 2 \frac{1}{4} \div 2 \frac{2}{5} \right) = \frac{13}{30}$$

$$5 \frac{1}{3} \div 3 \frac{5}{9} = \frac{1}{2}$$

$$2 \frac{1}{4} \div 2 \frac{2}{5} = \frac{15}{16}$$

もとの式は

$$\frac{1}{2} - \square + \frac{15}{16} = \frac{13}{30}$$

$$\Delta = \frac{1}{2} - \frac{13}{30}$$

$$\Delta = \frac{16}{15}$$

$$\square \div \frac{15}{16} = \frac{16}{15}$$

$$\square = \frac{16}{15} \times \frac{15}{16}$$

$$= 1$$

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