

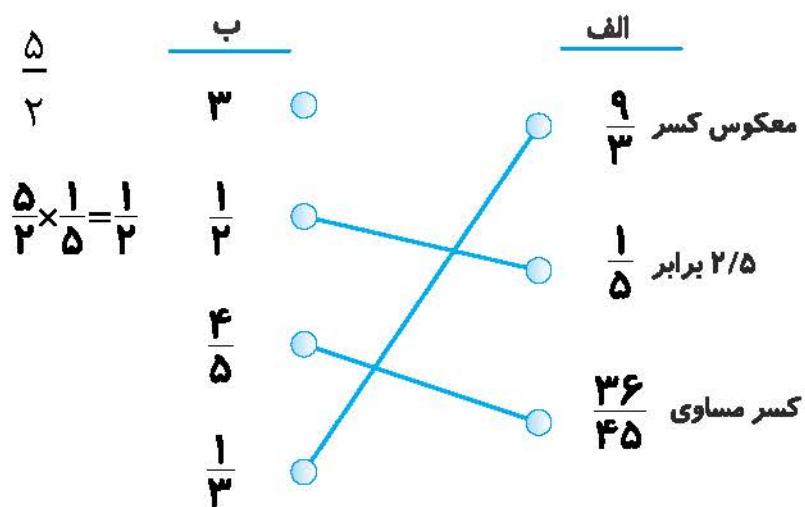
کار کلاس صفحه ۵۰



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$$\frac{5}{8} \div 2 \Rightarrow \frac{5}{8} \times \frac{1}{2} = \frac{5}{16}$$

.۲ (ب) $\frac{1}{2}$



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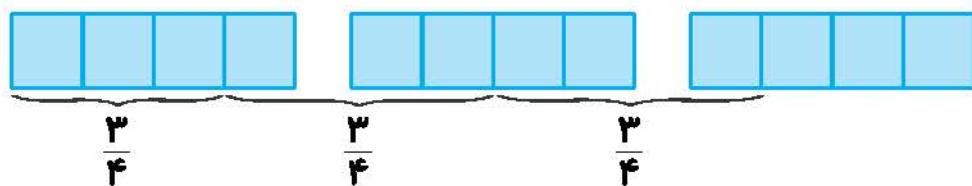
$$\frac{5}{12} \div \frac{4}{12} = \cancel{\frac{17}{12}} \times \cancel{\frac{1}{4}} = \frac{17}{3} = 5\frac{1}{3}$$

.۵ (ب)

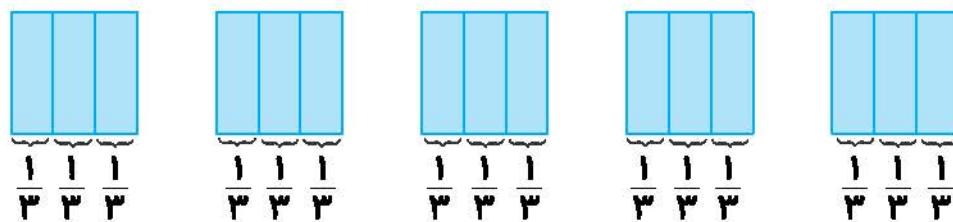
$$\frac{1}{7} \div 2 = \frac{1}{7} \times \frac{3}{2} = \frac{3}{14}$$

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$$\frac{10}{4} \div \frac{3}{4} = 3\frac{1}{3}$$



$$5 \div \frac{1}{3} = 15$$



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$$2\frac{2}{3} \div \frac{1}{3} = 8$$

$$3\frac{3}{4} \div \frac{3}{4} = 5$$

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$$21 \times \frac{3}{5} = \frac{63}{5} = 12\frac{3}{5} \xrightarrow{\text{تقرب}} 13$$

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$$\text{ب) } \frac{12}{\boxed{9}} \div \frac{\boxed{5}}{9} = \frac{\boxed{12}}{\boxed{5}} = \frac{2}{\frac{2}{5}}$$

$$\text{الف) } \frac{6}{10} \div \frac{3}{10} = 2$$

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بطری پر می شود.

$$450 \div \frac{1}{3} = 450 \times \frac{3}{1} = 1350$$

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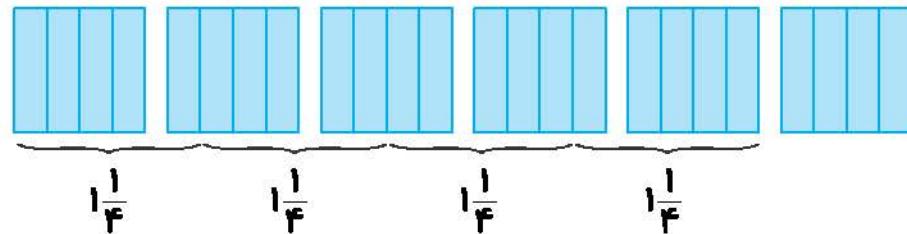
$$6 \div 1\frac{1}{4} = 6 \div \frac{5}{4} = \frac{24}{4} \div \frac{5}{4} = \frac{24}{5} = 4\frac{4}{5}$$

روش اول:

$$6 \div 1\frac{1}{4} = 6 \times \frac{4}{5} = \frac{24}{5} = 4\frac{4}{5}$$

روش دوم:

$$6 \div 1\frac{1}{4} = 4\frac{4}{5}$$



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$$\frac{2}{3} \div 5 = \frac{2}{3} \times \frac{1}{5} = \frac{2}{15}$$

٥٣ تمرین صفحه



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الف $\frac{3}{7} \div \frac{1}{6} = \frac{24}{7} \times \frac{6}{7} = \frac{144}{49} = 2 \frac{46}{49}$

(ب) ~~$\frac{5}{45} \times \frac{1}{3} = 45 \times \frac{1}{3} = 15$~~

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الف $\frac{1}{3} \div 3 = \frac{1}{3} \times \frac{1}{3} = \frac{1}{12}$

(ب) ~~$\frac{3}{5} \div \frac{2}{3} = \frac{15}{5} \times \frac{2}{3} = \frac{12}{5} = 2 \frac{2}{5}$~~

(ب) ~~$\frac{5}{3} \div \frac{25}{9} = \frac{5}{3} \times \frac{9}{25} = \frac{3}{5}$~~

(ت) $4 \div 1 \frac{1}{3} = \boxed{3}$



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$$\frac{5}{18} \div \frac{1}{3} = \frac{5}{6}$$

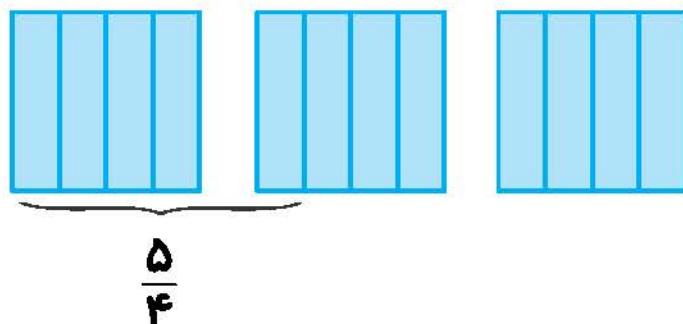
$$(ب) \frac{1}{18} \div \frac{1}{12} = \frac{1}{36} \div \frac{3}{36} = \frac{1}{3}$$

$$(ب) 4 \div \frac{1}{5} = 4 \times \frac{5}{1} = 20$$

$$(ت) \frac{1}{6} \div 2 = \frac{1}{12} \times \frac{1}{2} = \frac{1}{12}$$

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$$(الف) \frac{9}{4} \div \frac{5}{4} = 1 \frac{4}{5}$$



$$(ب) \frac{3}{3} \div \frac{2}{3} = 5 \frac{1}{2}$$

۵. اگر $\frac{1}{6}$ کیلوگرم دیگر زعفران داشت می‌توانست یک بسته دیگر درست کند.

$$\frac{1}{6} \div \frac{1}{3} = \frac{43}{6} \times \frac{1}{1} = \frac{43}{2} = 21\frac{1}{2}$$

۶

طول \times عرض = مساحت مستطیل

$$\frac{2}{3} = 2 \frac{1}{2} \times \circ$$

$$\frac{2}{3} \div \frac{1}{2} = \frac{26}{3} \times \frac{2}{5} = \frac{52}{15} = 3 \frac{7}{15}$$

۷

$$\frac{5}{6} \xrightarrow{\times 3} \boxed{\frac{5}{2}} \xrightarrow{+ \frac{3}{8}} \boxed{\frac{23}{8}} \xrightarrow{\div \frac{1}{8}} \boxed{23}$$

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$$(الـ) (2 + 1\frac{1}{5}) \times (2 - 1\frac{1}{5}) = \frac{16}{5} \times \frac{4}{5} = \frac{64}{25} = 2\frac{14}{25}$$

$$(\text{بـ}) 1\frac{3}{5} \div 3\frac{1}{7} = \frac{1}{5} \times \frac{7}{24} = \frac{28}{55}$$

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۹. الف) بزرگ تر

$$\frac{7}{4}$$

۱۰. به طور مثال:

$$\frac{18}{12} = \frac{3}{2} \times \frac{6}{6}$$

$$\frac{38}{72} = \frac{2}{9} \times \frac{19}{8}$$

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یک ضلع \times ۴ = محیط مربع

$$1\frac{5}{6} = 4 \times \circ$$

$$1\frac{5}{6} \div 4 = \frac{11}{6} \times \frac{1}{4} = \frac{11}{24}$$

خودش \times یک ضلع = مساحت مربع

$$\frac{11}{24} \times \frac{11}{24} = \frac{121}{576}$$

(١٢. الف)

$$16 = \{1, 2, 4, 8, 16\}$$

(ب)

$$\frac{1}{1}, \frac{1}{2}, \frac{1}{4}, \frac{1}{8}, \frac{1}{16}$$

(ب)

$$\frac{1}{1} + \frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{1}{16} = \frac{16+8+4+2+1}{16} = \frac{31}{16} = 1\frac{15}{16}$$

$$\frac{8 \times 4}{18 \times 4} \quad \frac{13}{24} \quad \frac{30}{72} \quad \frac{3}{6}$$

$$\frac{32}{72} \quad \frac{39}{72} \quad \frac{30}{72} \quad \frac{30}{72} \quad \frac{36}{72}$$

$$\frac{30}{72} < \frac{32}{72} < \frac{36}{72} < \frac{39}{72}$$

$$\frac{30}{72} < \frac{8}{18} < \frac{3}{6} < \frac{13}{24}$$

(ب)

$$\cancel{\frac{5}{72}} \times \frac{13}{\cancel{24}} = \frac{65}{288}$$

۱۴. الف) یک

ب)

$$\frac{3}{7} \times \frac{1}{4} = \cancel{\frac{3}{7}} \times \frac{1}{\cancel{4}} = \frac{3}{\cancel{28}} = \frac{3}{14}$$

۱۵. خیر زیرا اگر کسر ما کسر بزرگ‌تر از واحد باشد وقتی معکوس می‌شود کسر جدید از کسر قبلی کوچک‌تر می‌شود.

الف) خیر

$$\frac{5}{4} \xrightarrow[\square]{\text{معکوس}} \frac{4}{5} \quad (\text{مثال})$$

ب) خیر

$$\frac{3}{4} \div 1 = \frac{3}{4} \quad (\text{مثال})$$

$$1 \div \frac{3}{4} = 1 \times \frac{4}{3} = \frac{4}{3}$$