

Key



Why Was the Unemployed Dolphin Trainer So Sad?

Find each answer in the answer columns. Write the letter of the answer in the box containing the exercise number.

1. $-\frac{3}{4} \div \frac{1}{10}$

$-\frac{3}{4} \cdot \frac{10^5}{1} = \frac{-15}{2} = -7\frac{1}{2}$

2. $7\frac{1}{2} \div 3\frac{1}{3}$

$\frac{15}{2} \cdot \frac{3}{10} = \frac{9}{4} = 2\frac{1}{4}$

11. $8\frac{1}{3} \div 3\frac{3}{4}$

$\frac{25}{3} \cdot \frac{4}{15} = \frac{20}{9} = 2\frac{2}{9}$

12. $22\frac{1}{2} \div (-\frac{9}{10})$

$\frac{45}{2} \cdot \frac{-10}{9} = \frac{-50}{2} = -25$

3. $\frac{5}{8} \div (-6\frac{2}{3})$

$\frac{5}{8} \cdot \frac{-3}{20} = \frac{-3}{32}$

4. $15 \div 2\frac{5}{8}$

$\frac{15}{1} \cdot \frac{8}{24} = \frac{25}{4} = 6\frac{1}{4}$

13. $\frac{n}{2} \div \frac{3}{8}$

$\frac{n}{2} \cdot \frac{8}{3} = \frac{4n}{3}$

14. $n \div 2\frac{3}{5}$

$\frac{n}{1} \cdot \frac{5}{13} = \frac{5n}{13}$

5. $5\frac{1}{7} \div 9$

$\frac{36}{7} \cdot \frac{1}{9} = \frac{4}{7}$

6. $-4\frac{1}{6} \div (-1\frac{3}{4})$

$-\frac{25}{6} \cdot \frac{4}{7} = \frac{50}{21} = 2\frac{8}{21}$

15. $4\frac{2}{3} \div n$

$\frac{14}{3} \cdot \frac{1}{n} = \frac{14}{3n}$

16. $\frac{8n}{3} \div \frac{6n}{7}$

$\frac{8n}{3} \cdot \frac{7}{6n} = \frac{28n}{9n} = 3\frac{1}{9}$

7. $-10 \div \frac{3}{16}$

$-\frac{10}{1} \cdot \frac{16}{3} = \frac{-160}{3} = -53\frac{1}{3}$

8. $-\frac{5}{12} \div (-30)$

$-\frac{5}{12} \cdot \frac{-1}{30} = \frac{1}{72}$

17. $\frac{2n}{5} \div (-16)$

$\frac{2n}{5} \cdot \frac{-1}{8} = \frac{-n}{40}$

18. $-\frac{4}{9n} \div \frac{1}{15n}$

$-\frac{4}{9n} \cdot \frac{15n}{1} = \frac{-20}{3} = -6\frac{2}{3}$

9. A math textbook is $1\frac{1}{4}$ in. thick. How much shelf space is needed for 30 copies of the book?

$\frac{30}{1} \cdot \frac{5}{4} = \frac{150}{4} = 37\frac{1}{2}$ in.

19. A piece of rope $33\frac{1}{3}$ yd long was cut into 8 equal pieces. How long was each piece?

$\frac{100}{3} \div \frac{8}{1} = \frac{100}{3} \cdot \frac{1}{8} = \frac{25}{6} = 4\frac{1}{6}$ yds

10. A math textbook is $1\frac{1}{4}$ in. thick. How many books will fit on a shelf that is 30 in. wide?

$\frac{30}{1} \cdot \frac{4}{5} = 24$ books

20. Drax went on a 40-mile bike ride. If his average speed was $7\frac{1}{2}$ miles per hour, how long did the trip take?

$\frac{40}{1} \div \frac{15}{2} = \frac{80}{15} = \frac{16}{3} = 5\frac{1}{3}$ hrs

Answers 1-10			
I $2\frac{8}{21}$	O $-7\frac{1}{2}$	H $6\frac{1}{4}$	L 25
C $-8\frac{2}{3}$	O $-7\frac{1}{2}$	H $6\frac{1}{4}$	L 25
D 24	P $-53\frac{1}{3}$	U $\frac{3}{16}$	I $2\frac{1}{4}$
E $-\frac{3}{32}$	T 36 in.	A $\frac{4}{7}$	S $37\frac{1}{2}$ in.

Answers 11-20			
H $\frac{4n}{3}$	M $-5\frac{1}{2}$	S $4\frac{1}{6}$ yd	B $\frac{3n}{7}$
S $4\frac{1}{6}$ yd	B $\frac{3n}{7}$	P $5\frac{1}{3}$ h	O $3\frac{1}{9}$
T $4\frac{1}{2}$ h	L $\frac{14}{3n}$	E $2\frac{2}{9}$	R $\frac{5n}{13}$
I -25	N $-\frac{n}{40}$	G $5\frac{2}{3}$ yd	F $-6\frac{2}{3}$

A I S L I F E H A D N O P O R P O I S E