Rational Number Worksheet - 4

1. The rational True / False.	Il numbers $^1\!/_3$ and $^{-3}\!/_2$ are on the opposite side	e of zero	on the number line. Mark		
a)	True	b)	False		
2. Which property allow to calculate $^1/_6 \times [^5/_7 \times ^7/_9]$ as $[^1/_6 \times ^5/_7] \times ^7/_9$.					
a)	Associative	b)	Distributive		
c)	Commutative	c)	Both A and C		
3. Simplify -7 + $\frac{9}{10}$ + $\frac{3}{7}$ + (-5) + $\frac{5}{11}$ + ($\frac{-6}{5}$) by necessary arrangement.					
a)	³²³ / ₇₇₀	b) -11	³²¹ / ₇₇₀		
c)	$11^{232}/_{770}$	d) None	e of these		
4. Simplify $^3/_5 \times \left[^{10}/_9 - 40 \right]$ by using distributive of multiplication of rational numbers over addition.					
a)	-6	b)	¹⁹ / ₄₅		
c)	$-23\frac{1}{3}$	d)	9/5		
5. Arrange the number $\frac{1}{5}$, $\frac{13}{15}$, $\frac{3}{20}$ in descending order.					
a)	$^{1}/_{5}$, $^{13}/_{15}$, $^{3}/_{20}$	b)	$^{3}/_{20}$, $^{1}/_{5}$, $^{13}/_{15}$		
c)	¹³ / ₁₅ , ¹ / ₅ , ³ / ₂₀	d)	$^{13}/_{15}$, $^{3}/_{20}$, $^{1}/_{5}$		
6. The product of two rational numbers is $^{-17}\!/_{21}$. If one of the numbers be $^9\!/_7$, then find the other number.					
a)	$^{-27}/_{17}$	b)	²⁷ / ₇		
c)	$^{-17}/_{9}$	d)	$-17/_{27}$		
7. Find the multiplicative inverse of $4^{2}/_{5}$.					
a)	²² / ₅	b)	⁻⁵ / ₂₂		
c)	⁵ / ₂₂	d)	$^{-22}/_{5}$		
8. 50m rope is cut into pieces of equal size. If the length of one piece is $^{10}/_4$ m, find the number of such pieces.					
a)	11	b)	20		

d)

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c)

23

9. By what numbers should we multiply –39, so that the product may be 24?					
a)	$^{-8}/_{13}$	b)	13/8		
c)	$^{-2}/_{13}$	d)	$-3/_{8}$		
10. Write a ra	ntional number whose multiplicative inverse -1?				
a)	1	b)	-1		
c)	0	d)	Does not exist		
11. Find the sum of additive inverse and multiplicative inverse of $^7\!/_{11}$.					
a)	¹¹ / ₇	b)	$-72/_{77}$		
c)	$-170/_{77}$	d)	$-77/_{11}$		
12. For any rational number A, A + (-1) = -A. Mark True/False					
a)	False	b)	True		
13. For every rational number A, A×0 = A. Mark True/False.					
a)	True	b)	False		
14. If $^A/_B$ is additive inverse of $^C/_D$, then $^A/_B - ^C/_D = 0$. Mark True / False.					
a)	False	b)	True		
15. The rational number 10.123 in the form of a/b is					
a)	¹⁰ / ₁₂₃	b)	¹²³ / ₁₀₀		
c)	¹⁰¹²³ / ₁₀₀	d)	$^{10123}/_{1000}$		
16. The rational numbers $^1\!/_4$ and $^{-1}\!/_4$ are on theside of zero on the number line.					
a)	Same	b)	Both		
c)	Opposite	d)	None of these		
17. The equivalent rational number of $^8/_9$ whose denominator is 36 is					
a)	³⁶ / ₃₂	b)	$^{32}/_{36}$		
c)	⁹ / ₈	d)	8/36		
18. The equivalent of $^4/_7$ whose numerator is 20, is					
a)	$^{20}/_{35}$	b)	$^{20}/_{23}$		
c)	²⁰ / ₄₀	d)	None of these		
19. Write the greater number between 8/21 and 2/63.					

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a) $\frac{2}{63}$

Both same

b)

c) $\frac{8}{21}$

d) None of these

20. A window curtain is $30\,^1\!/_5$ cm long has a hem of $2\,^4\!/_5$ cm. How long will the curtain be if the hem is let down?

a) 31 cm

b) 33.24 cm

c) 42 cm

d) 33 cm