Add, subtract and simplification of fraction

Simplify the following fractions.

1. $^3/_8 + {}^1/_4 - {}^5/_{12}$ =_____

2. $2\,^1/_6 + 3\,^1/_5$ =_____

3. $5\,^3/_8 - 2\,^1/_3$ =_____

4. $4\,^3/_5 + 3\,^5/_6 - {}^7/_{30}$ =_____

Simplify the following fractions

5. $^8/_9 \times {}^6/_{24} \div {}^{10}/_{18}$ =_____

6. $4\,^2/_3 \times 3\,^3/_4 \div {}^{12}/_{15}$ =_____

7. $5\,^1/_2 \div {}^9/_{16} \times 5\,^2/_3$ =_____

8. $(2\,^1/_3 \div 2\,^3/_4) \div 4\,^5/_6 =$_____

9. Which sign makes the sentence true?

$$\frac{6}{9} \boxed{} \frac{1}{3} + \frac{5}{9}$$

10. Estimate the difference. Round each number to the nearest whole number, then subtract.

$$8\frac{5}{7} - 1\frac{8}{9}$$

11. Which sign makes the sentence true?

$$\frac{1}{2} \boxed{} 0.5$$

12. Add and simplify your answer and write it as a proper fraction or as a whole or mixed number.

$$\frac{-3}{10} + \frac{-2}{5} = \ldots\ldots\ldots\ldots$$

13. Estimate the product. Round the first factor to the nearest whole number, then multiply.

$$5\frac{1}{10} \times 12$$

14. Sarah calculates that she spends 1/3 of her pocket money on sweets, and 2/5 on magazines. What fraction of her pocket money does Sarah spend on sweets and magazines?

15. Sam has $^3/_4$ kg of toffees. If he gives $^3/_8$ kg to Mike, how many will he have left?

16. Of the pies that Preston's Pie Shop sold last month, $^1/_3$ were blueberry pies and 1/3 were blackberry pies. What fraction of the pies sold were either blueberry or blackberry?

_____

17. Madison's milkshake recipe calls for 4 $^4/_5$ scoops of ice cream and Drake's recipe calls for 3 1/5 scoops. How many more scoops of ice cream are used in Madison's recipe than in Drake's recipe?

_____

18. Scarlett collected 5/8 of a bin of glass bottles to recycle. Kailey collected 2 times as many bins as Scarlett. How many bins of bottles did Kailey collect?

_____

19. In Yu Jie's grade, 2/5 of the students have a sister. Of the students who have a sister, 1/3 also have a brother. What fraction of the students in Yu Jie's grade have both a sister and a brother? _____

20. What is the reciprocal of $^2/_3$ and 1?

_____

21. A factory uses $^1/_8$ of a barrel of raisins in each batch of granola bars. Yesterday, the factory used $^3/_4$ of a barrel of raisins. How many batches of granola bars did the factory make yesterday?

_____

22. Over the weekend, Hugo drank 3/4 of a litre of soda and Charlotte drank 1/6 of a litre. How much more soda did Hugo drink than Charlotte?

_____

Write the missing numbers in these fraction sums.

$$\frac{1}{4} + \frac{\boxed{}}{8} = 1 \qquad \frac{1}{3} + \frac{8}{\boxed{}} = 1$$