19 Write as a single fraction in its simplest form.

(a) $\dfrac{5a}{6} \times \dfrac{3b}{a}$

.... [2]

10 Simplify.

$$\dfrac{p}{2q} \times \dfrac{4pq}{t}$$

.... [2]

3 Simplify fully.

$$\dfrac{5x}{12} \times \dfrac{4}{15x}$$

.... [2]

(b) Simplify $\dfrac{a}{x} \div \dfrac{b}{2y}$.

Give your answer as a single fraction.

.... [1]

15 Simplify.

$$\frac{x-4}{x^2-16}$$

.... [2]

(b) Simplify.

$$\frac{x-5}{x^2-25}$$

.... [2]

23 Simplify.

$$\frac{2x^2+10x}{x^2-25}$$

.... [3]

19 Simplify.

$$\frac{7x - x^2}{49 - x^2}$$

.... [3]

22 Simplify.

$$\frac{5x - x^2}{25 - x^2}$$

.... [3]

16 Simplify $\dfrac{x^2y - 3xy}{x^2 - 2x - 3}$.

.... [3]

22 Simplify.

$$\frac{x^2 - 5x}{2x^2 - 50}$$

.... [4]

21 Simplify.

$$\frac{5p^2 - 20p}{2p^2 - 32}$$

.... [3]

20 Write as a single fraction in its simplest form.

(a) $\dfrac{10x^2 - 60x}{x^2 - x - 30}$

.... [3]

7 (a) Simplify.

$$\frac{x^2 - 25}{x^2 - x - 20}$$

.... [3]

24 Simplify.

$$\frac{x^2 - 25}{x^2 - 17x + 60}$$

.... [4]

18 Simplify.

$$\frac{w^2 - 9}{2w^2 + 5w - 3}$$

.... [4]

23 Simplify.

$$\frac{5x^2 - 19x + 12}{x^2 - 9}$$

.... [4]

21 Simplify.

$$\frac{2x^2 + 5x - 12}{4x^2 - 9}$$

.... [4]

22 Simplify.

$$\frac{2x^2 - 5x - 12}{3x^2 - 12x}$$

.... [4]

(b) Write as a single fraction in its simplest form.

$$\frac{4}{2x-3} \div \frac{2x^2+14x}{2x^2+11x-21}$$

.... [4]

(b) (i) Factorise.

$$x^2 - 9$$

.... [1]

(ii) Simplify.

$$\frac{x^2 - 9}{2xy - 6y + 5x - 15}$$

.... [3]

11 Simplify.

$$\frac{ax^2 + 5ax + bx + 5b}{x^2 - 25}$$

.... [3]

24 Simplify.

$$\frac{ax-2a-x+2}{a^2-1}$$

.... [4]

23 Simplify.

$$\frac{3xy+36y-5x-60}{2x^2-288}$$

.... [4]

17 Simplify.

$$\frac{3x - 6y - ax + 2ay}{x^3 - 2x^2y}$$

.... [4]

26 Simplify.

$$\frac{ux - 2u - x + 2}{u^2 - 1}$$

.... [4]

15 Simplify.

$$\frac{3-a}{3p-6t-ap+2at}$$

.... [3]

(d) Simplify.
$$\frac{2x-1-4ax+2a}{2x^2-x}$$

.... [4]

25 Simplify.

$$\frac{2x^2 + x - 15}{ax + 3a - 2bx - 6b}$$

.... [5]

(b) $\dfrac{6x^2 + x - 12}{6ax - 8a - 3x + 4}$

.... [5]